Exploring a Feasible Platform for Project Management

Group ID: RP24_002

TEAM MEMBERS

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Supervisors

Supervisor

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Co - Supervisor

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Agenda

- Here we are introducing our research
- Here we are discussing about our objects
- Here we are explaining our individual components
- Here we are concluding our research presentation

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Introduction

- Project management is the process of planning, organizing, and managing resources to achieve specific goals and objectives within a given timeframe and budget.
- Effective project management ensures successful project delivery, efficient resource utilization, and alignment with organizational goals.
- Proposed Solution: Feasible Platform for Web Application

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RESEARCH PROBLEM

- Why is an integrated platform necessary for effective project management?

MAIN OBJECTIVES

Evaluate the applicability and benefits of adopting agile project management practices for web application development.

Objective 01

Identify core APM principles and frameworks that can be implemented for web application projects

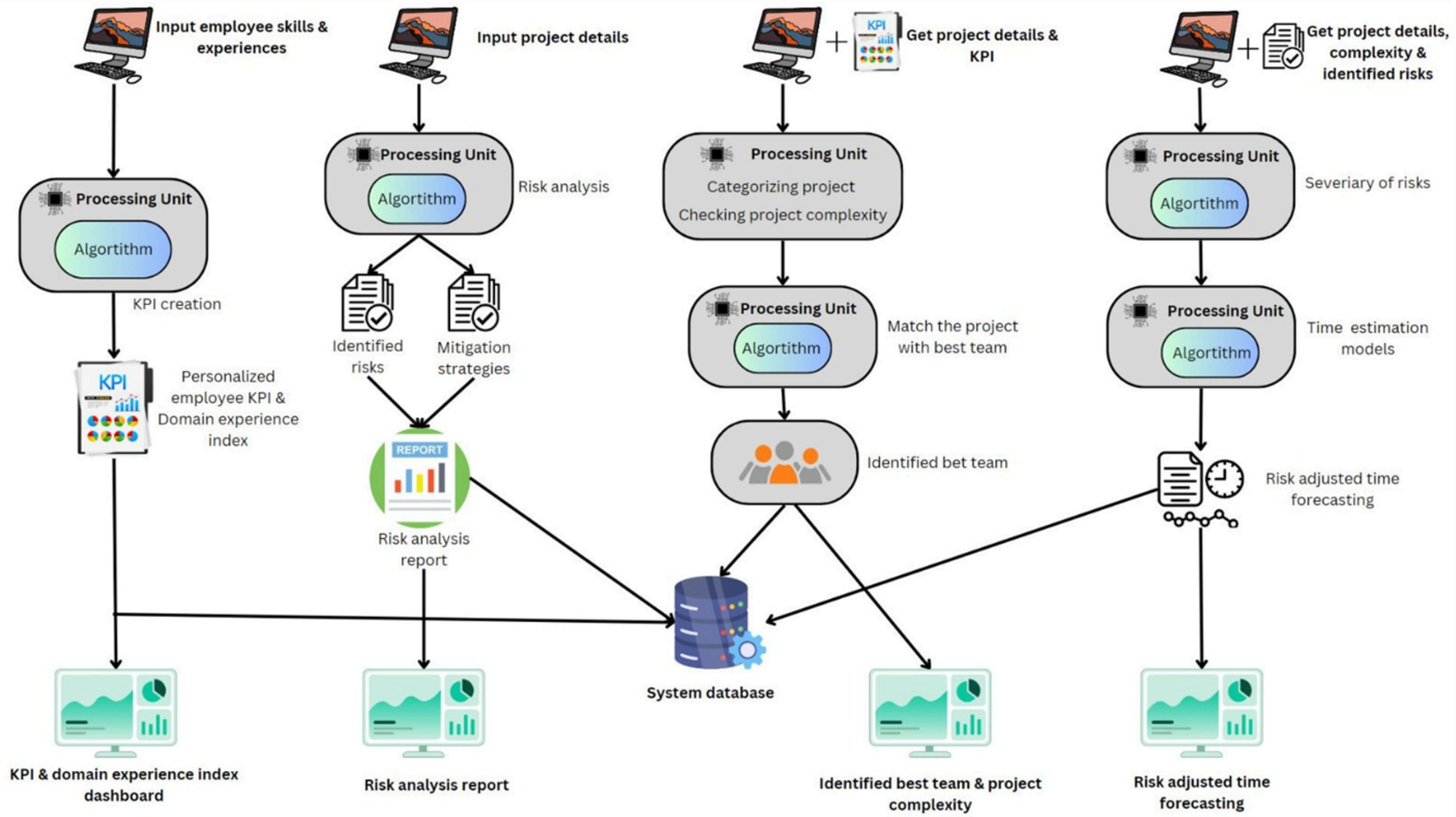
Objective 02

Develop a customized APM framework optimized for web application development life cycles. Provide recommendations for integration, adaptation, and continuous improvement of the APM framework for web teams

Objective 03

Review literature on current agile project management (APM) practices and frameworks used for software/web development.

SYSTEM DIAGRAM



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Skill-based Employee KPI Generator

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Component 01

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Introduction

- Automated systems that can generate customized KPIs based on employee skills and experience KPI needs to be develop based on the employee and different team.
- Monitor employee productivity and contribution.
- Key performance indicators (KPIs) are metrics that help quantify and track employee performance

RESEARCH QUESTION

- How to avoid time-consuming, low accuracy, and unrelated results by automating KPI generation?
- How to include employee skills and experiences rather than general KPI?
- How to create the right KPI based on skills, to effectively create tasks and develop skills?

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Objectives

To develop an automated system for generating tailored KPIs for employees based on their skills and experience

Objective 01

Analyze various skills and experience required for different roles

Objective 02

Create a user-friendly interface for entering employee details

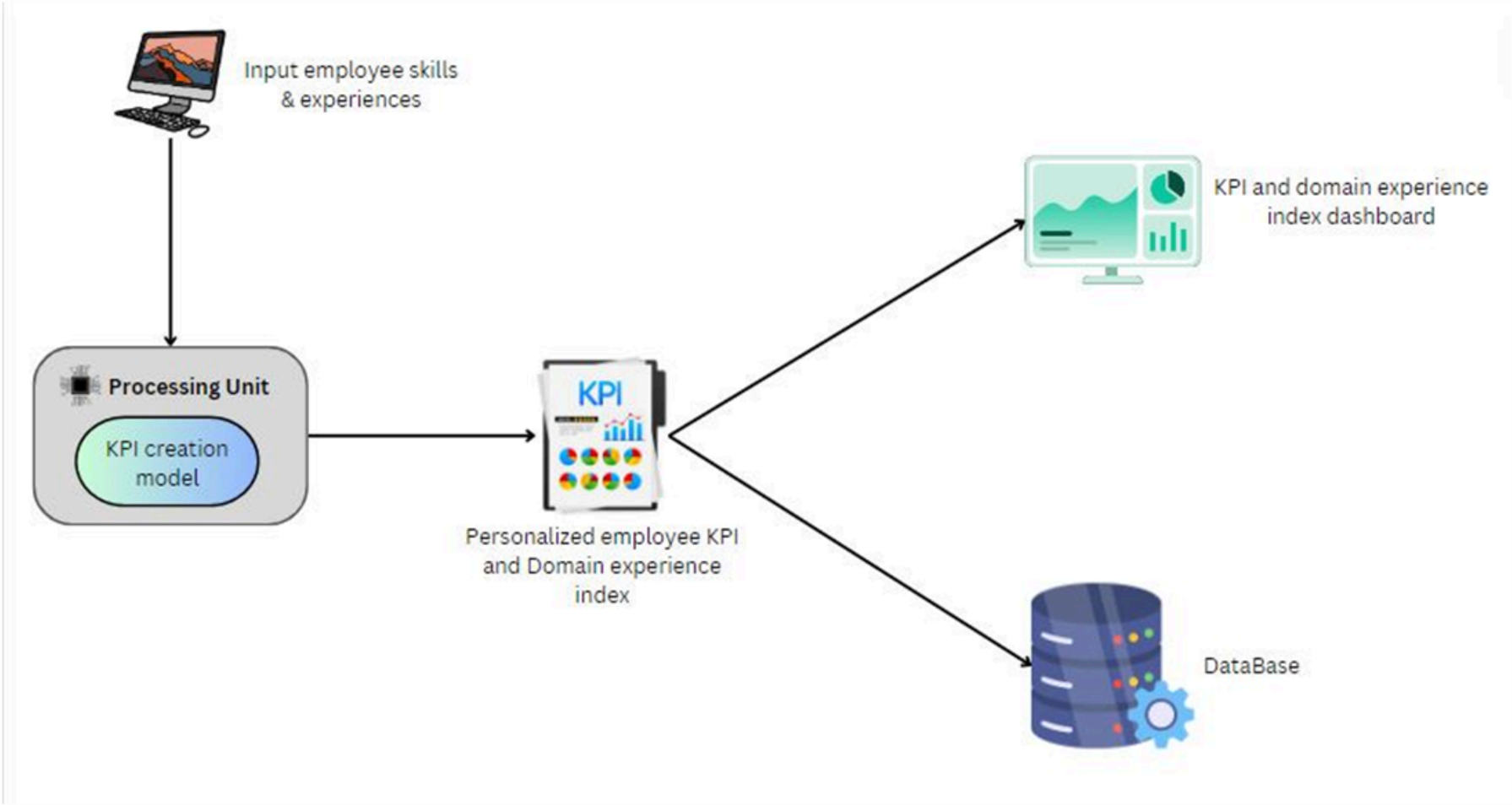
Objective 03

Generate customized KPI metrics and targets for each employee.

methodology

A separate weighted scoring table is created for each job role and a formula is created for it.

OVERVIEW DIAGRAM



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TOOLS & TECHNOLOGIES

SYSTEM REQUIREMENTS

RAM (8GB)
Windows 10
200GB HDD

TECHNOLOGIES

REACT
MY SQL
spring-boot

HARDWARE

Laptop
Desktop

Software Requirments

IntelliJ
Postman

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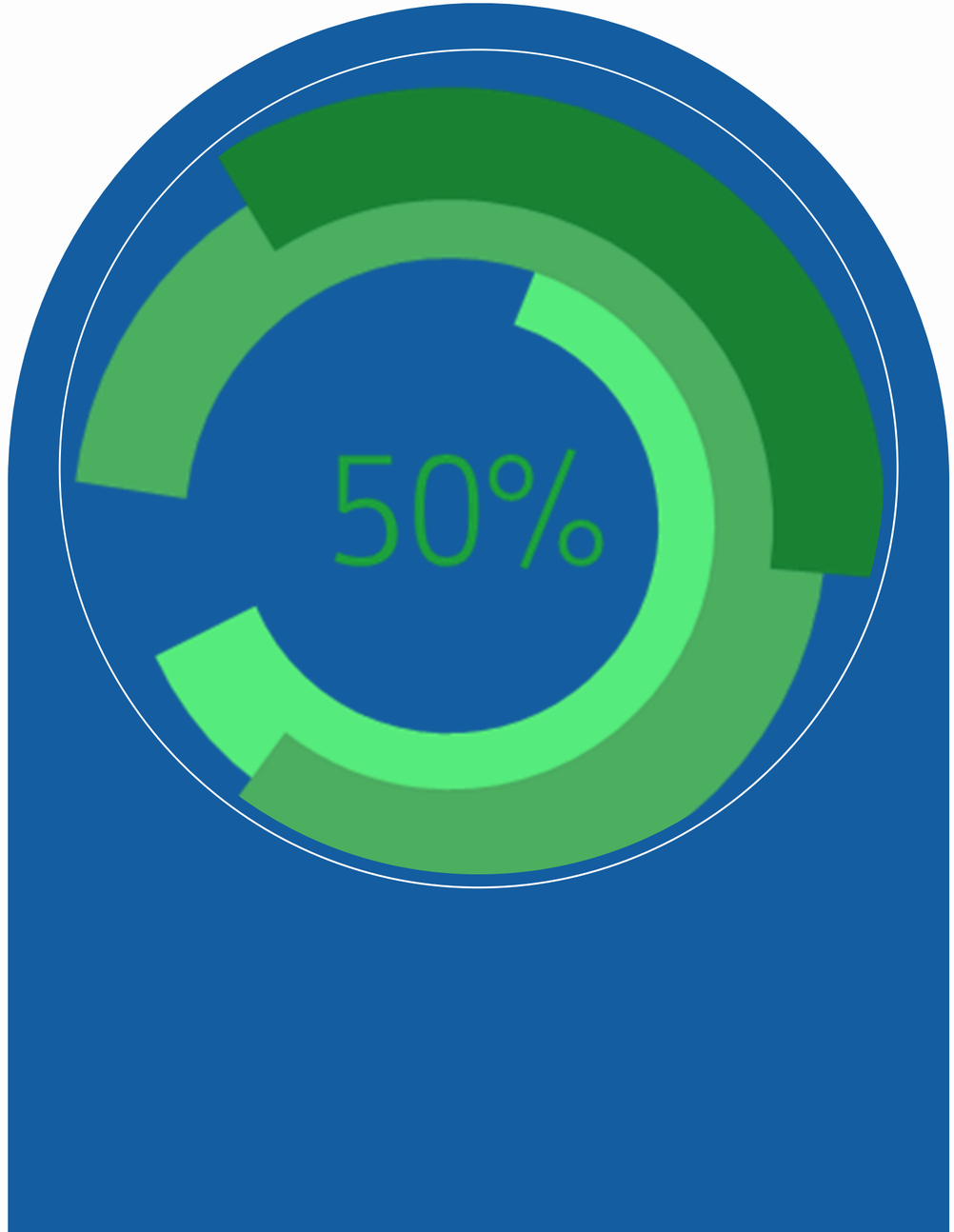
CURRENT PROGRESS

A survey has been conducted and a data report has been obtained about the relevant skills.

Create a data report about the minimum percentage expected for each

About 50% of the backend was created to generate KPI

Drawn UI for interface



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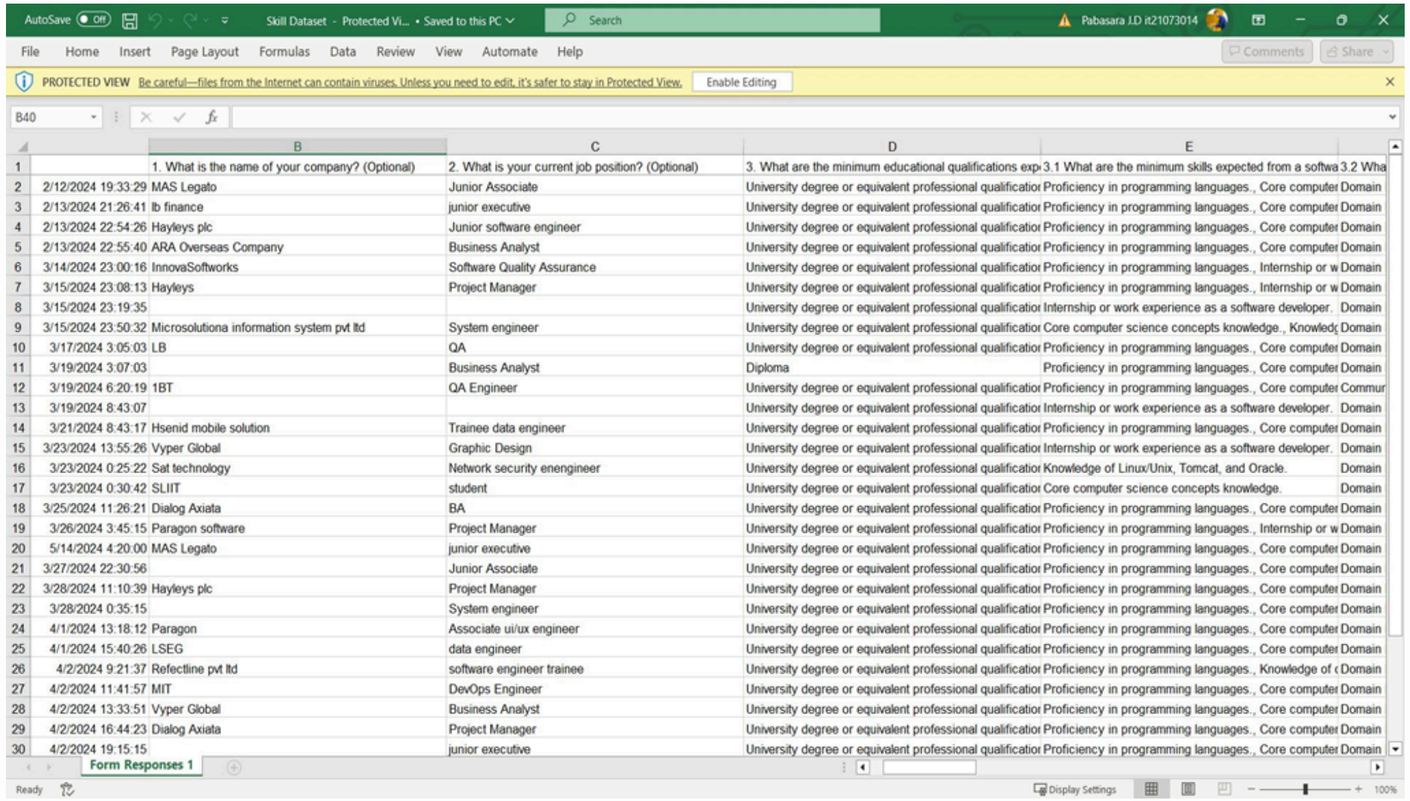
PROJECT EVIDENCE



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PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

B40

		1. What is the name of your company? (Optional)	2. What is your current job position? (Optional)	3. What are the minimum educational qualifications exp	3.1 What are the minimum skills expected from a softwa	3.2 Wha
2	2/12/2024 19:33:29	MAS Legato	Junior Associate	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
3	2/13/2024 21:26:41	lb finance	junior executive	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
4	2/13/2024 22:54:26	Hayleys plc	Junior software engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
5	2/13/2024 22:55:40	ARA Overseas Company	Business Analyst	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
6	3/14/2024 23:00:16	InnovaSoftworks	Software Quality Assurance	University degree or equivalent professional qualificatio	Proficiency in programming languages., Internship or w	Domain
7	3/15/2024 23:08:13	Hayleys	Project Manager	University degree or equivalent professional qualificatio	Proficiency in programming languages., Internship or w	Domain
8	3/15/2024 23:19:35			University degree or equivalent professional qualificatio	Internship or work experience as a software developer.	Domain
9	3/15/2024 23:50:32	Microsolutiona information system pvt ltd	System engineer	University degree or equivalent professional qualificatio	Core computer science concepts knowledge., Knowledg	Domain
10	3/17/2024 3:05:03	LB	QA	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
11	3/19/2024 3:07:03		Business Analyst	Diploma	Proficiency in programming languages., Core computer	Domain
12	3/19/2024 6:20:19	1BT	QA Engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Commur
13	3/19/2024 8:43:07			University degree or equivalent professional qualificatio	Internship or work experience as a software developer.	Domain
14	3/21/2024 8:43:17	Hsenid mobile solution	Trainee data engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
15	3/23/2024 13:55:26	Vyper Global	Graphic Design	University degree or equivalent professional qualificatio	Internship or work experience as a software developer.	Domain
16	3/23/2024 0:25:22	Sat technology	Network security enengineer	University degree or equivalent professional qualificatio	Knowledge of Linux/Unix, Tomcat, and Oracle.	Domain
17	3/23/2024 0:30:42	SLIIT	student	University degree or equivalent professional qualificatio	Core computer science concepts knowledge.	Domain
18	3/25/2024 11:26:21	Dialog Axiata	BA	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
19	3/26/2024 3:45:15	Paragon software	Project Manager	University degree or equivalent professional qualificatio	Proficiency in programming languages., Internship or w	Domain
20	5/14/2024 4:20:00	MAS Legato	junior executive	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
21	3/27/2024 22:30:56		Junior Associate	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
22	3/28/2024 11:10:39	Hayleys plc	Project Manager	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
23	3/28/2024 0:35:15		System engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
24	4/1/2024 13:18:12	Paragon	Associate ui/ux engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
25	4/1/2024 15:40:26	LSEG	data engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
26	4/2/2024 9:21:37	Refectline pvt ltd	software engineer trainee	University degree or equivalent professional qualificatio	Proficiency in programming languages., Knowledge of (	Domain
27	4/2/2024 11:41:57	MIT	DevOps Engineer	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
28	4/2/2024 13:33:51	Vyper Global	Business Analyst	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
29	4/2/2024 16:44:23	Dialog Axiata	Project Manager	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain
30	4/2/2024 19:15:15		junior executive	University degree or equivalent professional qualificatio	Proficiency in programming languages., Core computer	Domain

Form Responses 1

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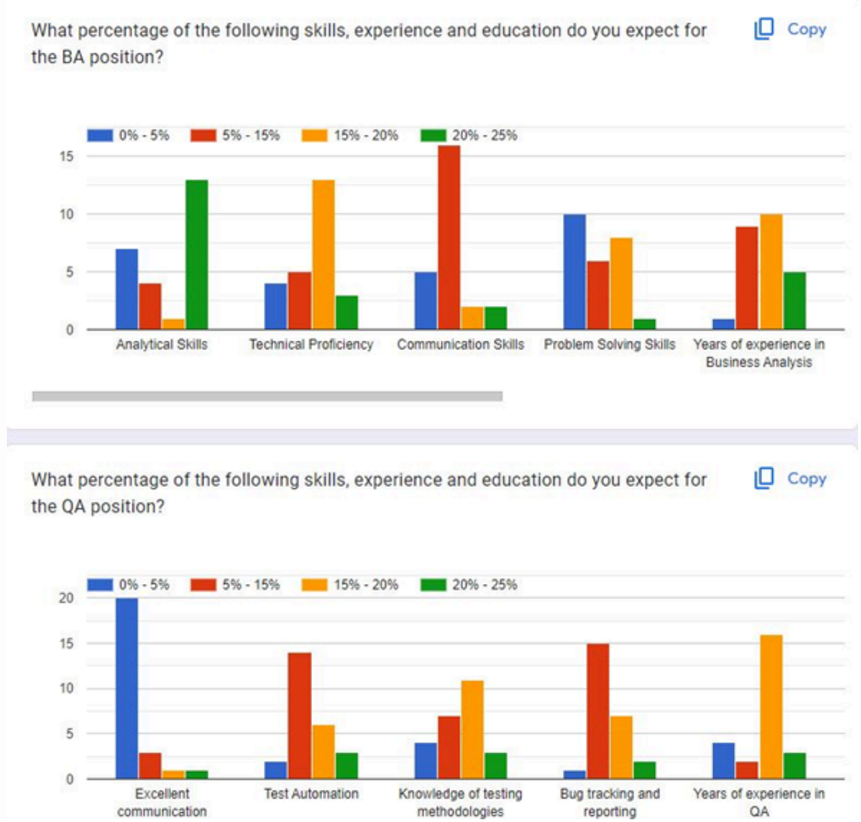

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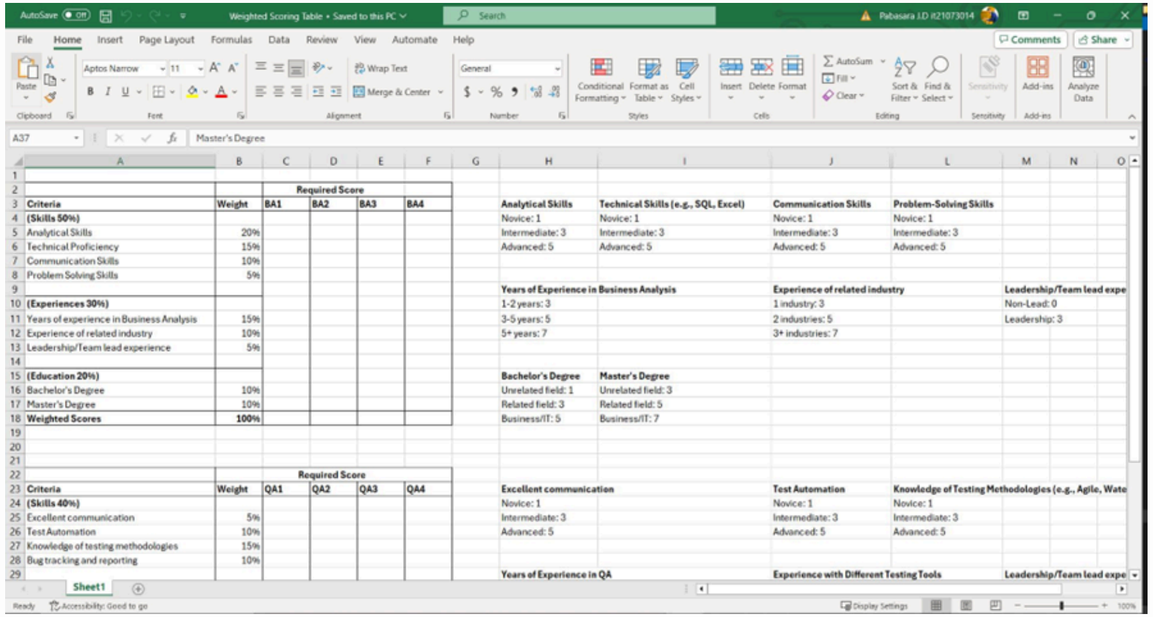


Criteria	Weight	Required Score BA1	BA2	BA3	BA4
(Skills 50%)					
Analytical Skills	20%				
Technical Proficiency	15%				
Communication Skills	10%				
Problem Solving Skills	5%				
(Experiences 30%)					
Years of experience in Business Analysis	15%				
Experience of related industry	10%				
Leadership/Team lead experience	5%				
(Education 20%)					
Bachelor's Degree	10%				
Master's Degree	10%				
Weighted Scores	100%				

Criteria	Weight	Required Score QA1	QA2	QA3	QA4
(Skills 40%)					
Excellent communication	5%				
Test Automation	10%				
Knowledge of testing methodologies	15%				
Bug tracking and reporting	10%				

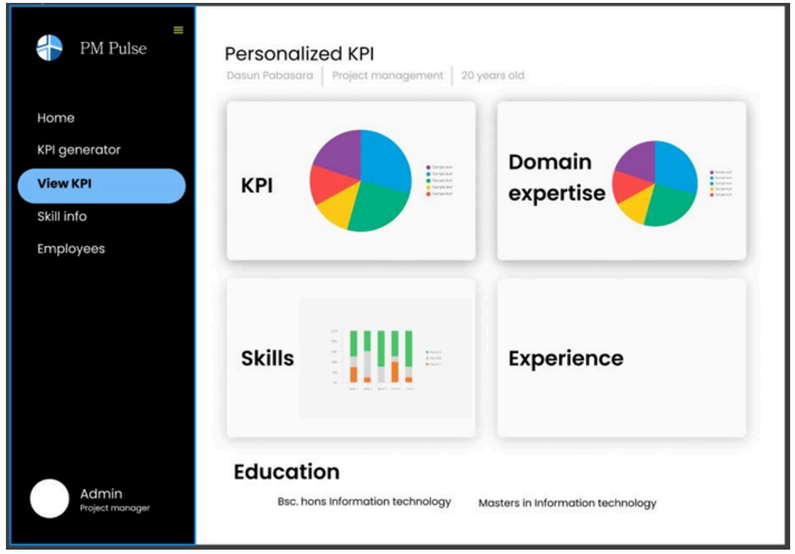
Analytical Skills	Technical Skills (e.g., SQL, Excel)	Communication Skills	Problem-Solving Skills
Novice: 1	Novice: 1	Novice: 1	Novice: 1
Intermediate: 3	Intermediate: 3	Intermediate: 3	Intermediate: 3
Advanced: 5	Advanced: 5	Advanced: 5	Advanced: 5

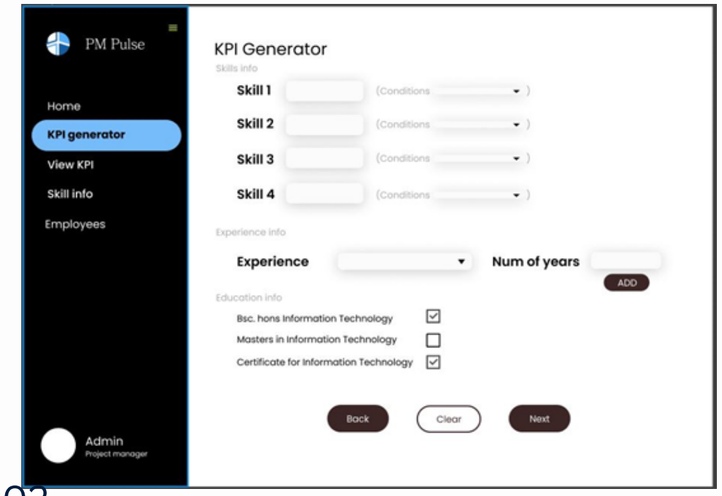
Years of Experience in Business Analysis	Experience of related industry	Leadership/Team lead expe
1-2 years: 3	1 industry: 3	Non-Lead: 0
3-5 years: 5	2 industries: 5	Leadership: 3
5+ years: 7	3+ industries: 7	

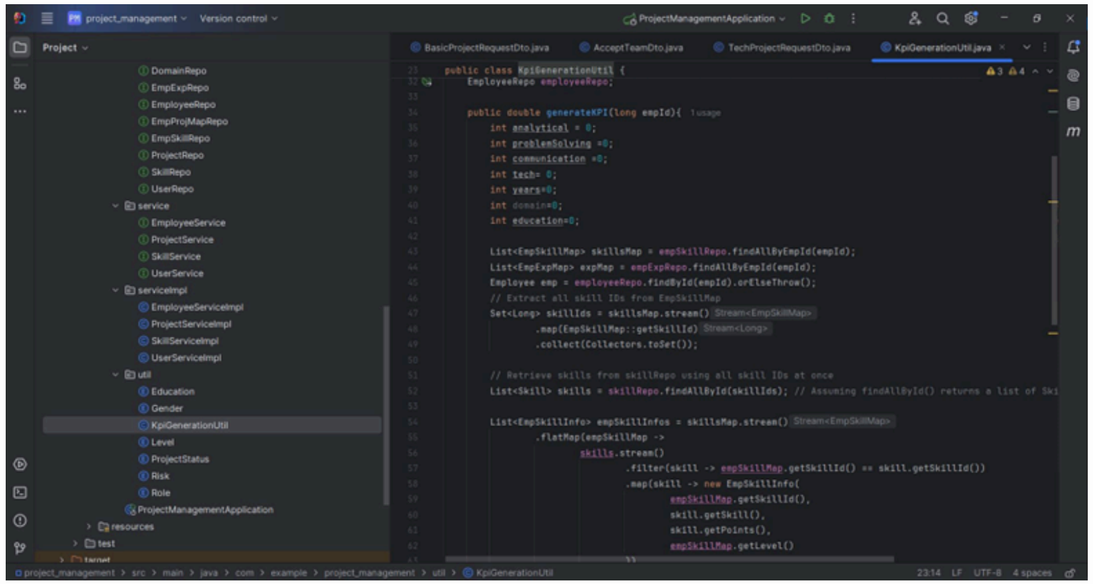
Bachelor's Degree	Master's Degree
Unrelated field: 1	Unrelated field: 3
Related field: 3	Related field: 5
Business/IT: 5	Business/IT: 7

Excellent communication	Test Automation	Knowledge of Testing Methodologies (e.g., Agile, Wate
Novice: 1	Novice: 1	Novice: 1
Intermediate: 3	Intermediate: 3	Intermediate: 3
Advanced: 5	Advanced: 5	Advanced: 5

Years of Experience in QA	Experience with Different Testing Tools	Leadership/Team lead expe







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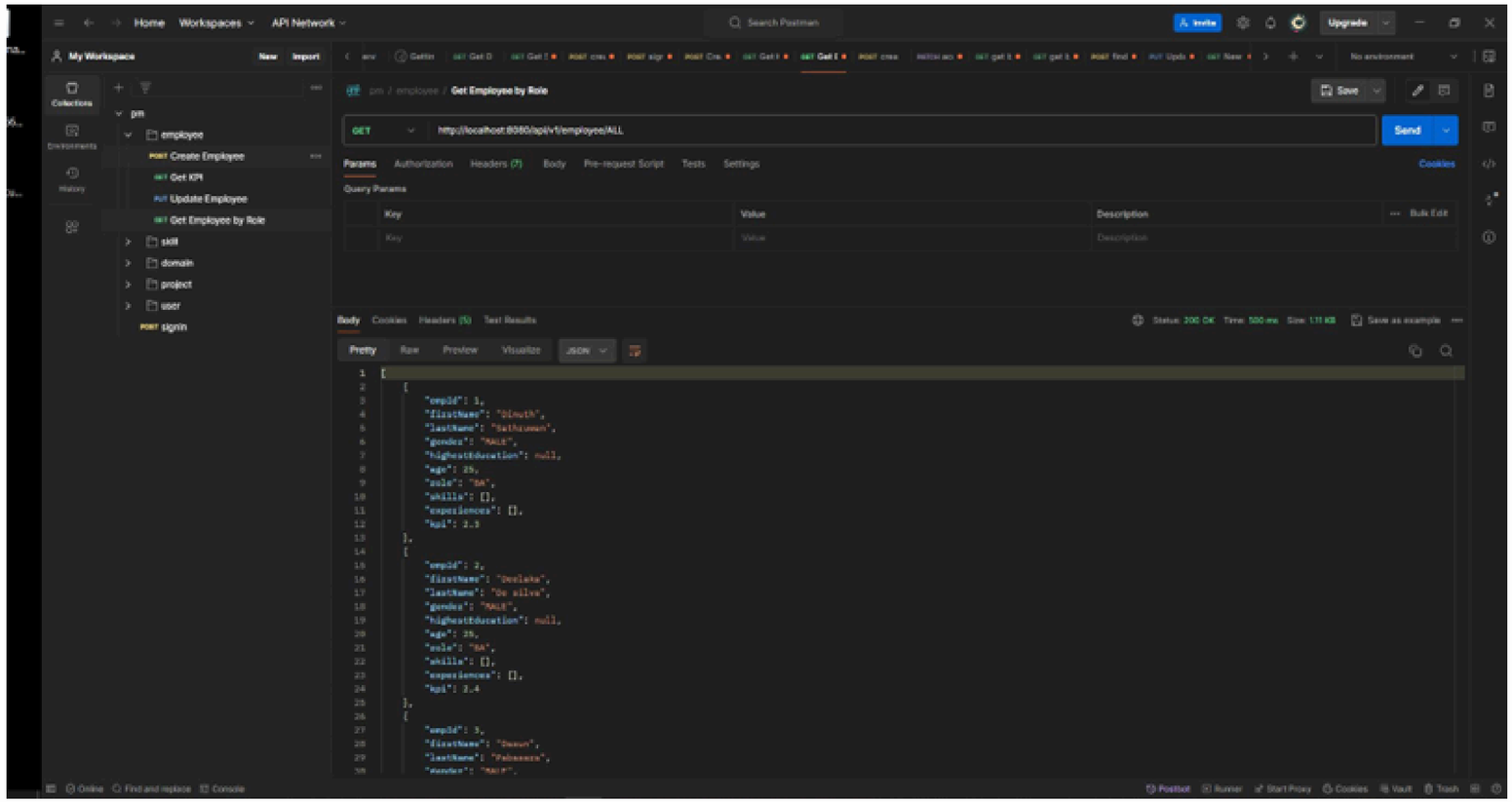
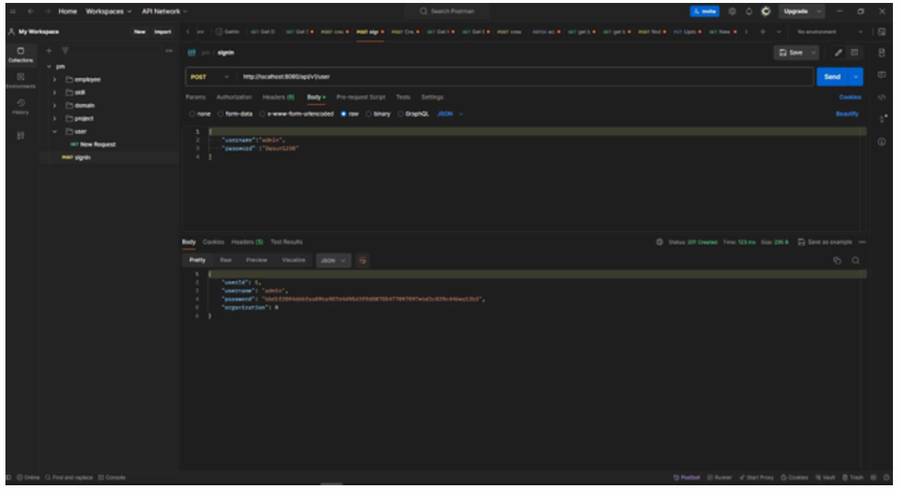
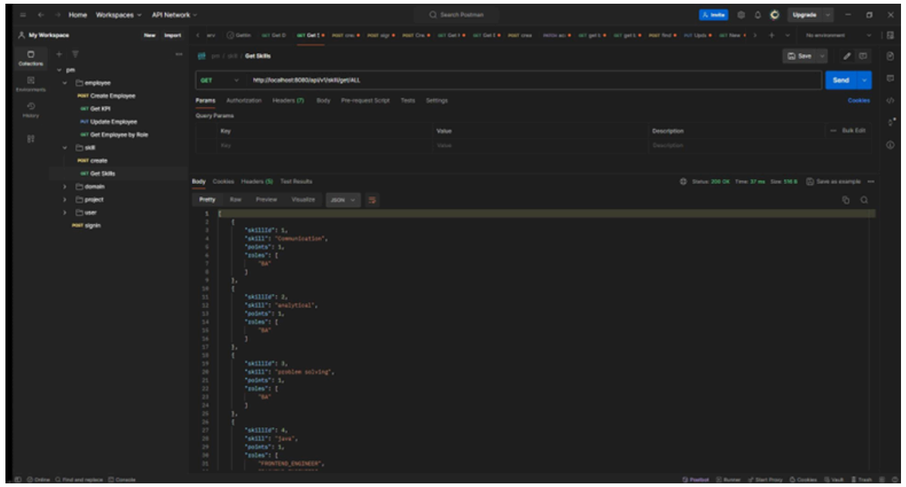
API Testing







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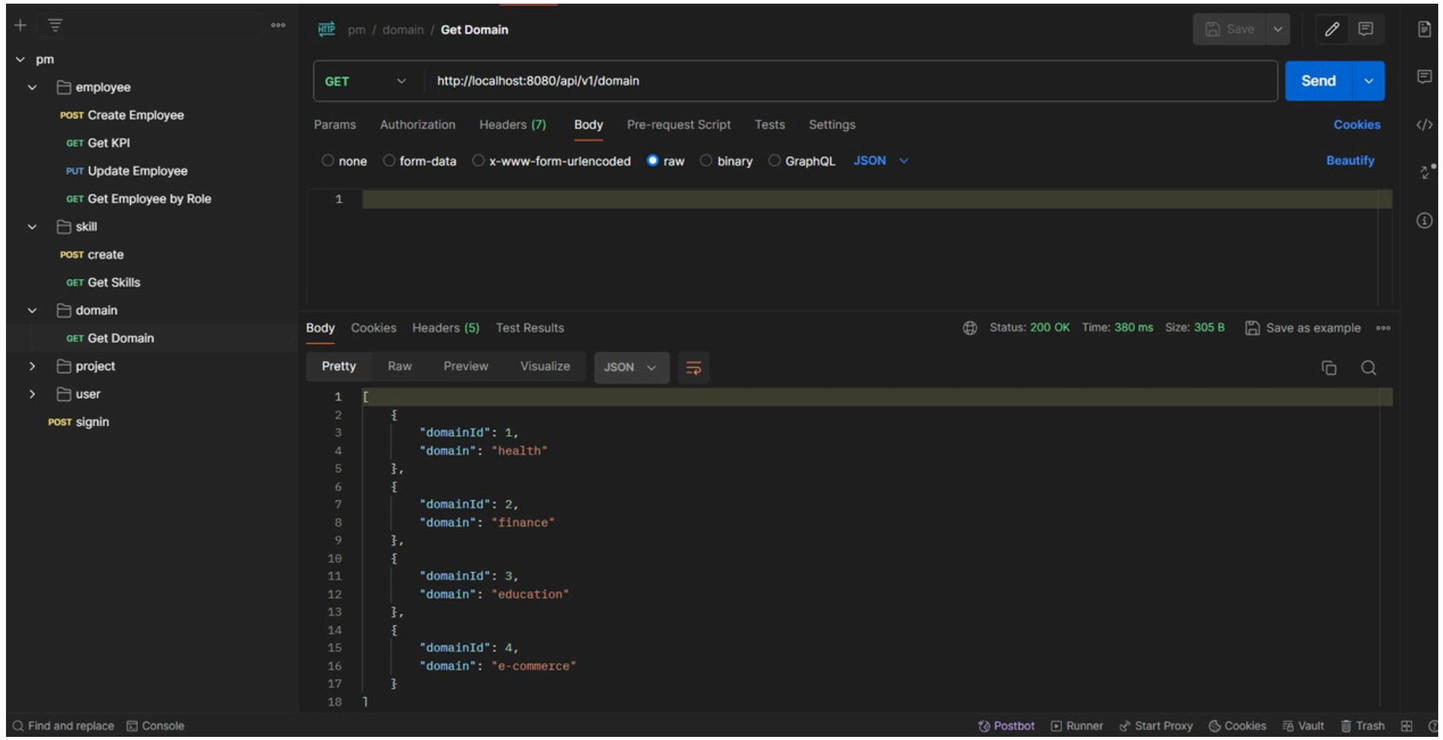

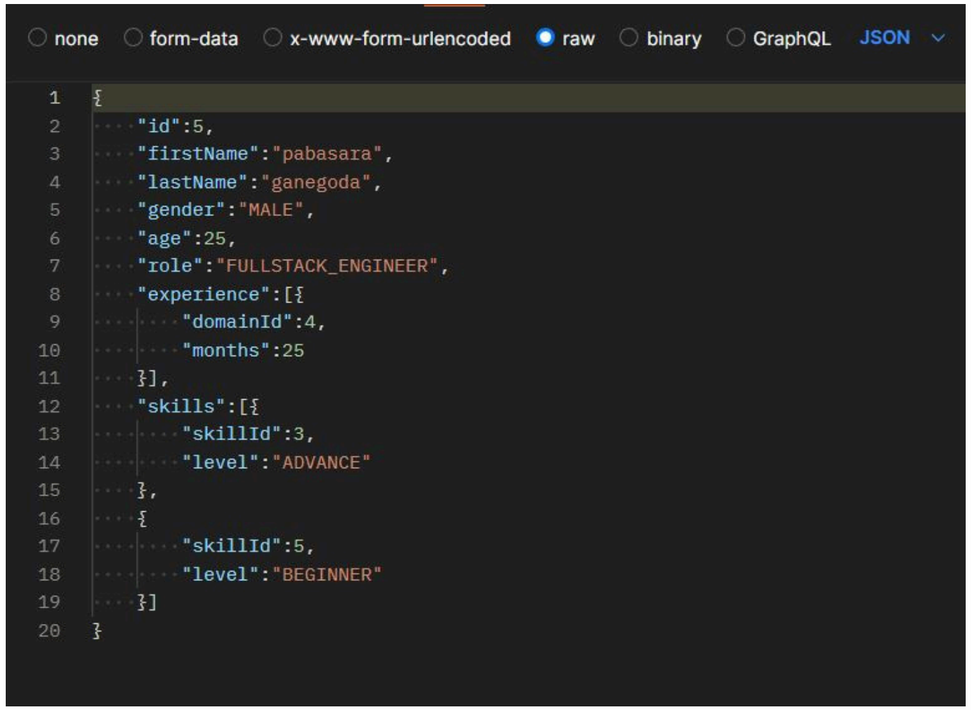

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FUTURE PROGRESS

Create a front end.

Establish the connection between the front end and backend.

Component Integration

REFERENCES

Terttiaavini, et al. “Development of a Decision Support System on Employee Performance Assessment Using Weighted Performance Indicators Method.” International Journal of Information Engineering and Electronic Business, vol. 15, no. 3, 2023, p. 1, www.mecs-press.org/ijieeb/ijieeb-v15-n3/v15n3-1.html. Accessed 6 May 2024.

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Risk Identification of software projects and provide mitigation strategies

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Component 02

Group ID: RP24_002

Introduction

- Identify risk level and factors depend to the risk level mainly based on team, scope, timeline.
- Identify mitigation strategies for the risks before they affected the project outcomes.
- Automate and improve the risk management process and outcomes.

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RESEARCH QUESTION

- How to accurately identify potential risks in project planning and execution?
- What effective mitigation strategies can be employed for different risk types?
- How can software project managers identify potential risks accurately and proactively?
- How can emerging technologies such as AI and machine learning be leveraged to enhance risk identification and mitigation in software development?

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Objectives

o devise a comprehensive framework integrating risk identification and mitigation strategies tailored specifically for software development projects.

Objective 01

Analyze historical data to enhance risk assessment.

Objective 02

Identify project risks based on domain-specific data

Objective 03

Provide effective risk mitigation strategies

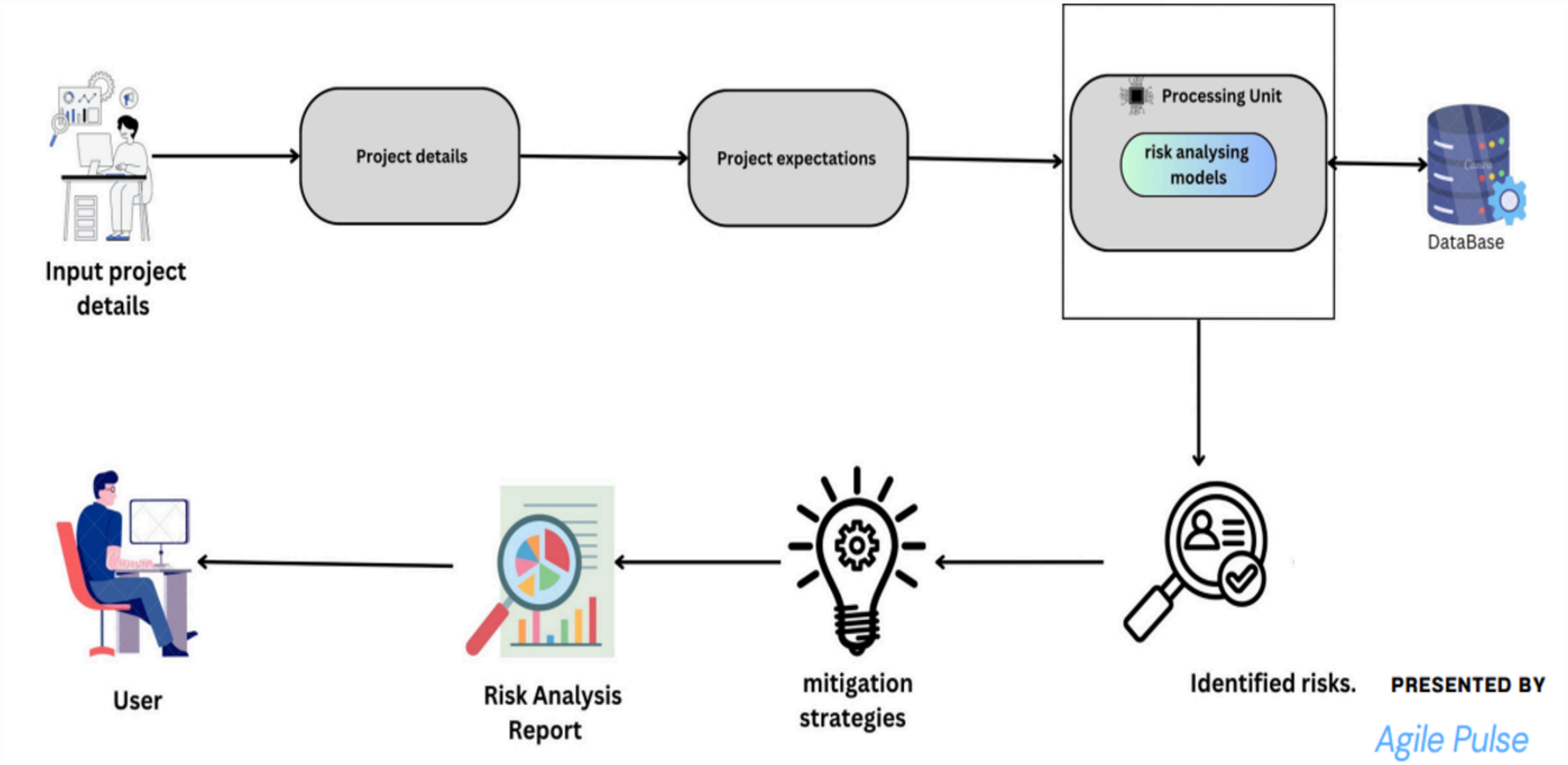
Objective 04

Create a user-friendly interface for entering project details

methodology

- Machine Learning and Predictive Analytics
- Update machine learning models with project data
- An algorithm was created to identify risk level and factors with mitigation strategies.

OVERVIEW DIAGRAM



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TOOLS & TECHNOLOGIES

SYSTEM REQUIREMENTS

RAM (8GB)
Windows 10
200GB HDD

TECHNOLOGIES

React
MySQL
Spring-boot
python
Maven

HARDWARE

Laptop
Desktop

Software Requirements

PyCharm
Postmen

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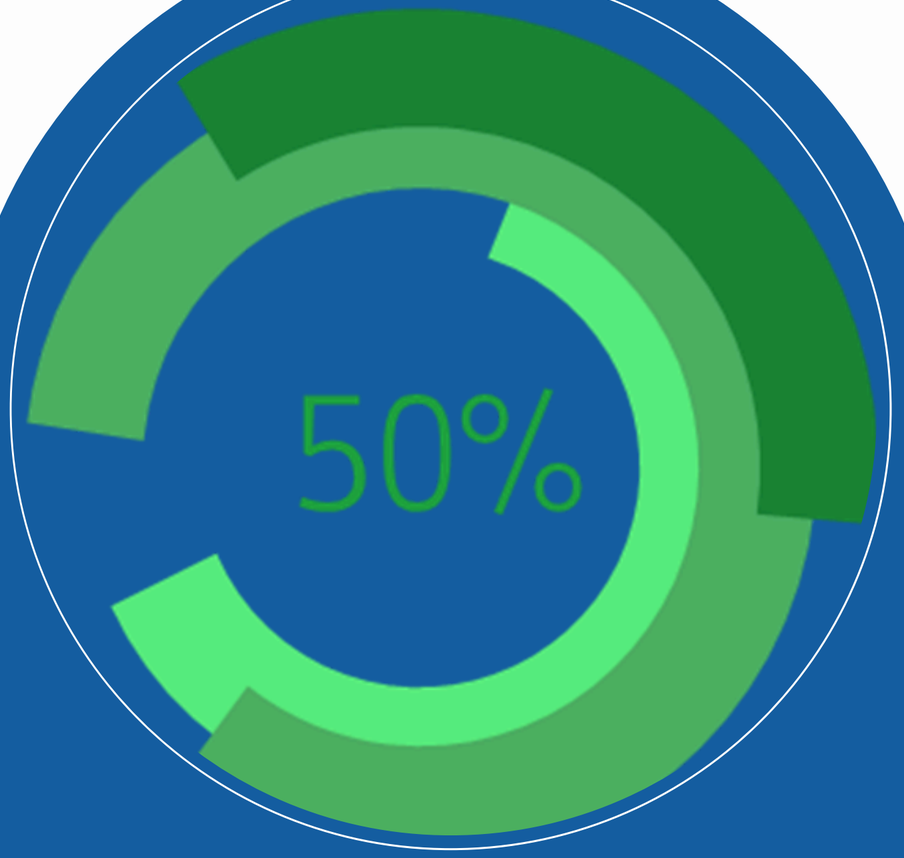
CURRENT PROGRESS

A survey has been conducted and a data report has been obtained about the relevant risks.

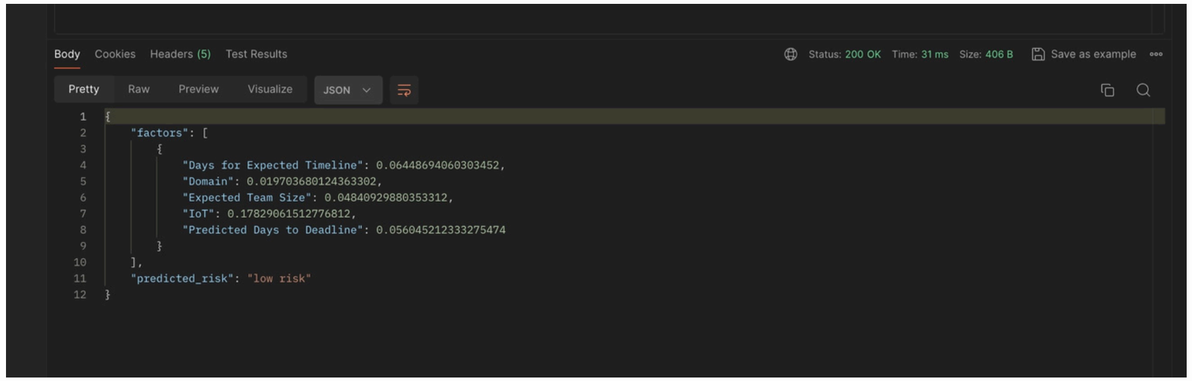
About 50% of the backend was created to generate Risk Identification.

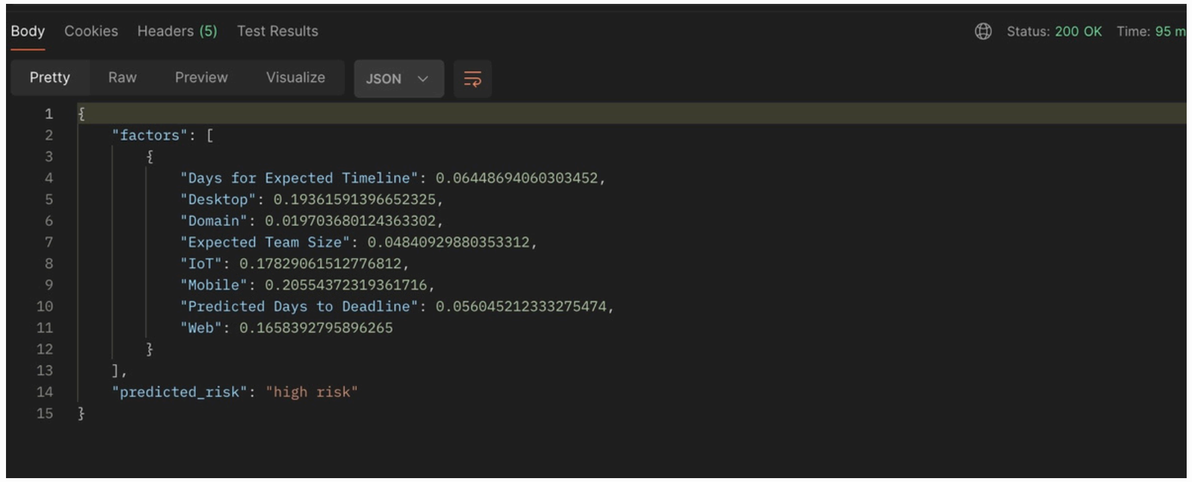
Drawn UI for interface



PROJECT EVIDENCE

Domain	Mobile	Desktop	Web	IoT	Days for Expected Timeline	Predicted Days to Deadline	Expected Team Size	Expected Budget	Risk
1	1	1	1	0	62	71	6	499944	3
1	1	1	1	0	110	112	6	95199	3
3	0	1	0	1	56	59	12	102271	2
3	1	1	0	1	167	155	5	205850	3
2	0	0	1	0	94	79	14	242834	1
2	0	0	0	1	64	70	11	167439	1
1	0	0	0	1	52	42	3	94414	1
1	1	0	1	1	30	13	4	115003	3
2	0	1	0	0	62	77	14	269391	1
2	0	1	0	1	96	98	9	393515	2
3	0	1	1	1	29	19	10	351561	3
2	1	0	0	1	145	149	6	297587	2
3	1	1	0	1	49	32	5	374613	3
2	1	1	0	1	73	54	1	153800	3
2	0	0	0	0	149	137	9	252166	1
2	0	1	1	0	142	160	14	308597	2
1	0	0	1	0	160	172	5	115969	1
1	0	1	1	1	63	62	8	419905	3
1	0	1	1	1	47	54	13	402733	3
2	0	1	0	1	85	91	9	482112	2
3	0	0	1	0	117	117	5	475771	1
2	1	1	1	1	99	112	4	48811	3
3	1	0	0	0	138	141	10	206558	1
2	0	0	1	0	121	102	14	31921	1
2	1	1	0	1	101	107	6	211067	3
3	0	1	0	0	47	35	3	147700	1
3	1	1	0	1	130	139	5	227817	3
2	0	0	1	0	42	31	9	176162	1
3	0	1	1	0	88	74	11	193718	2





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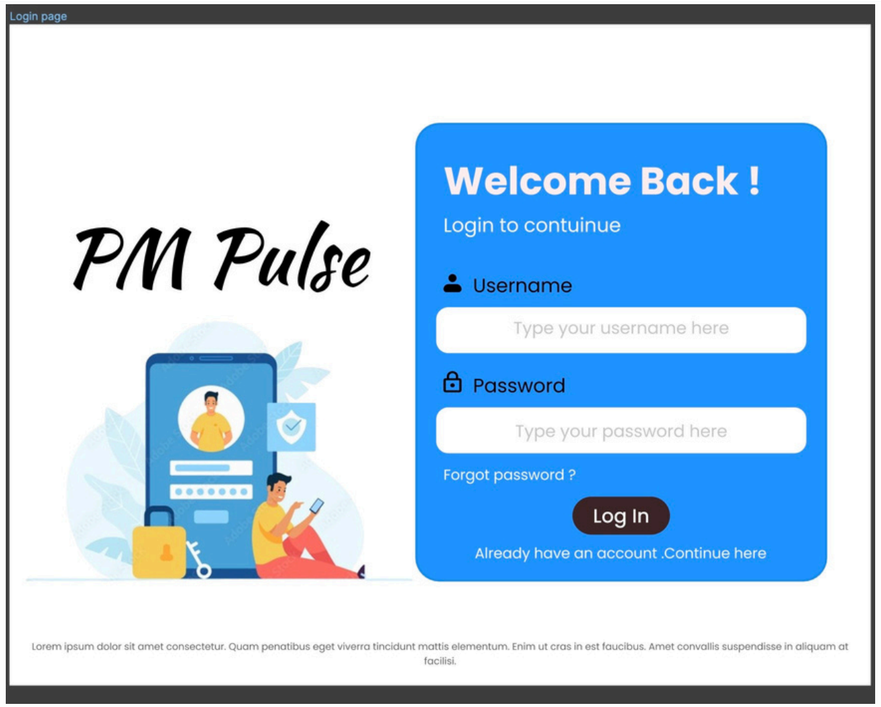

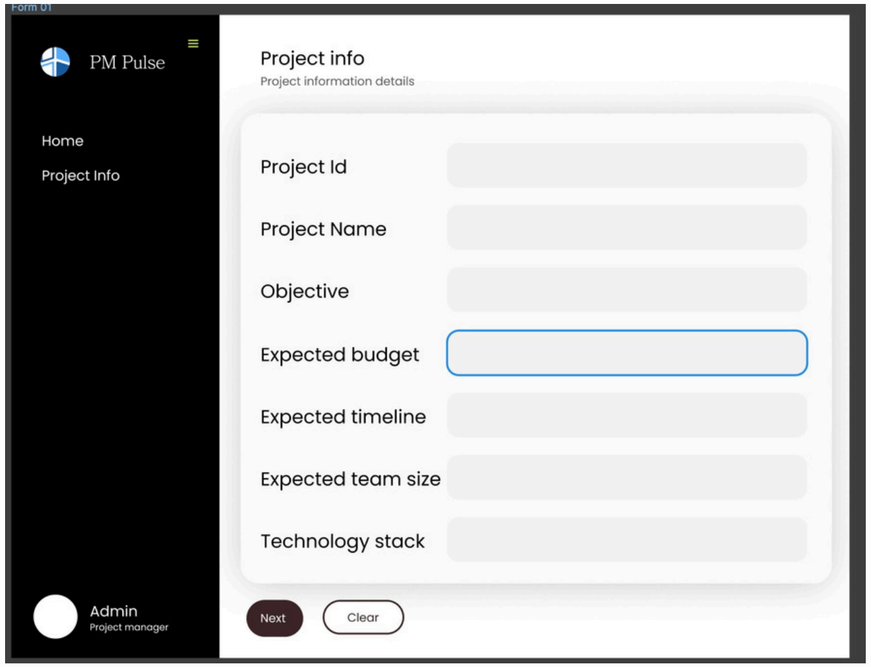

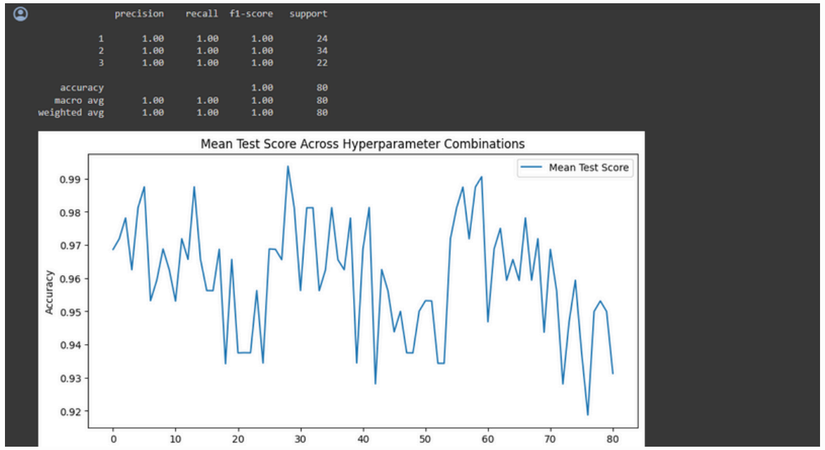

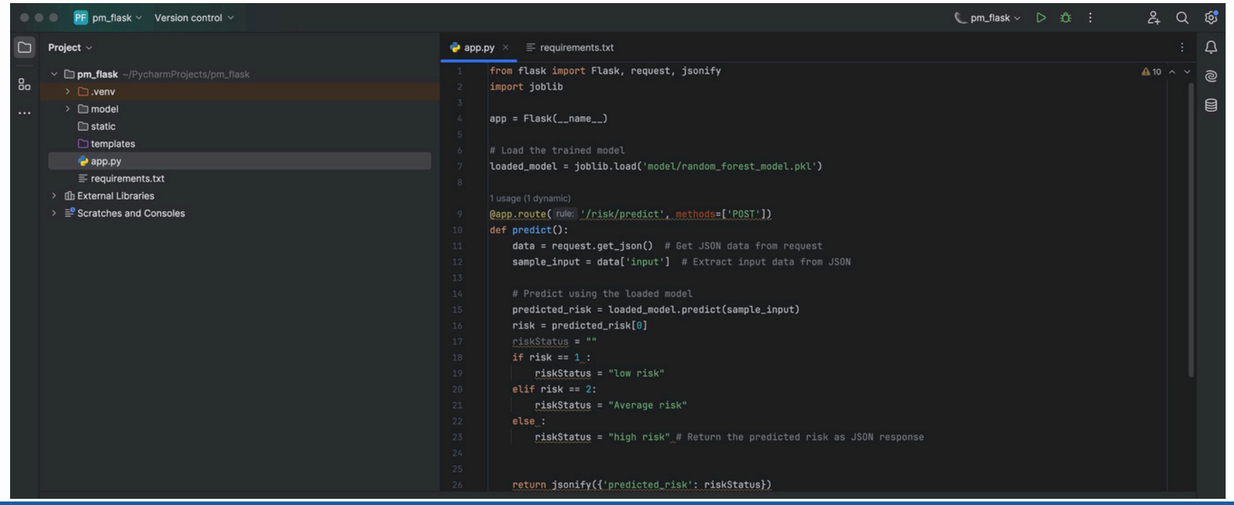

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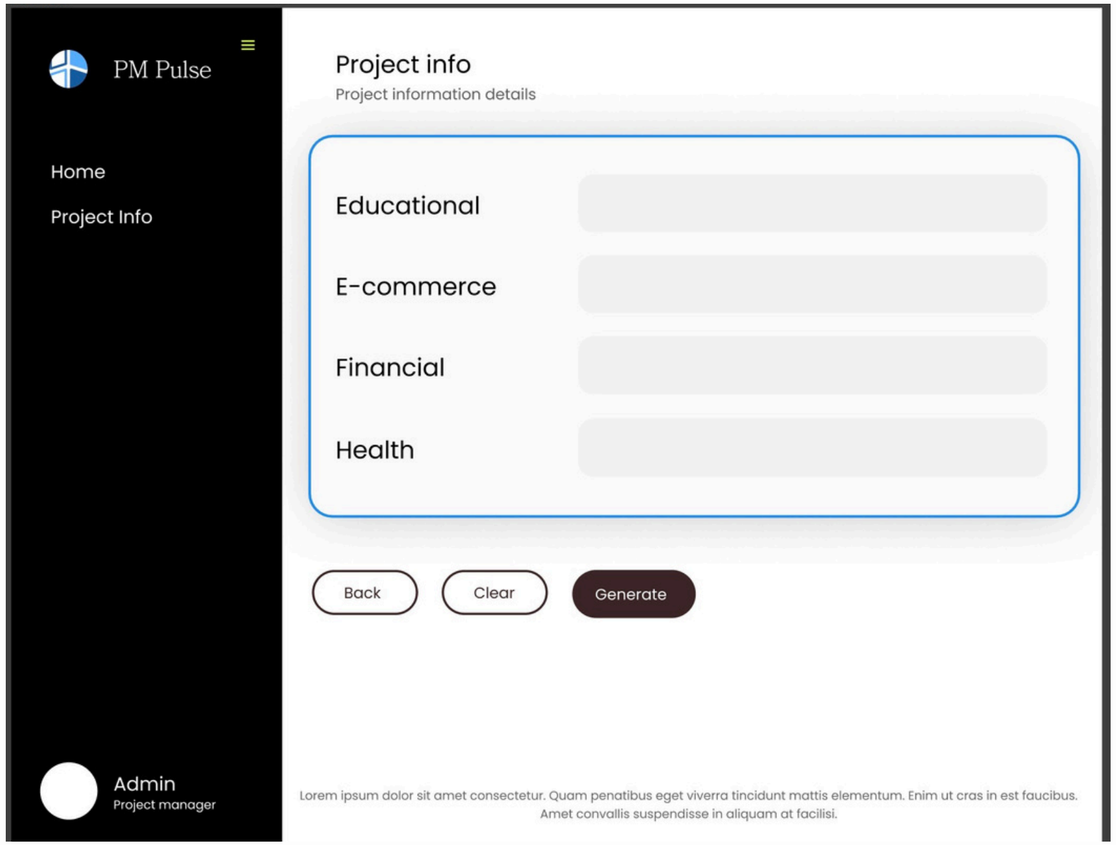

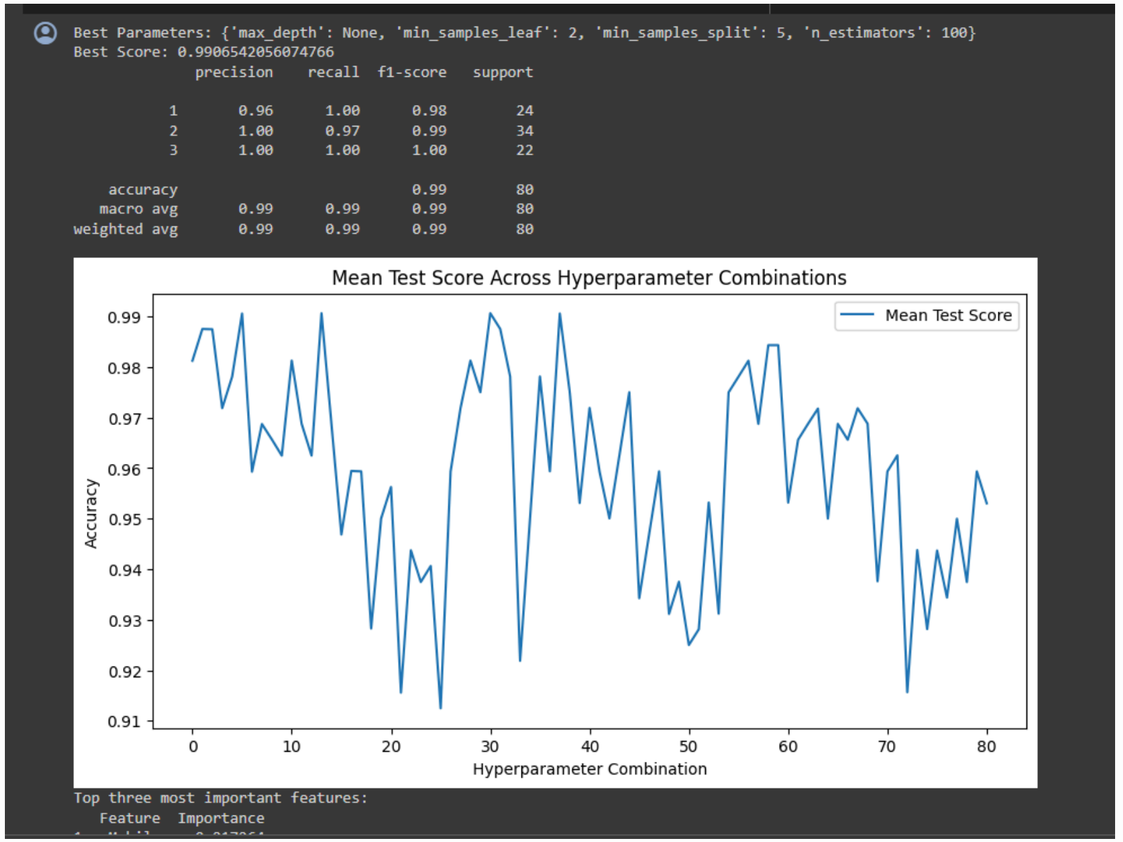

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FUTURE PROGRESS

Create a front end.

Establish the connection between the front end and backend.

Component Integration

REFERENCES

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DYNAMIC PROJECT NAVIGATOR

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Component 03

Group ID: RP24_002

Introduction

- This component aims to project categorization based on properties like type, scope, domain. It will map projects to key performance indicators and also the best team assign the automatically.

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RESEARCH QUESTION

- How to optimally assign team members based on project requirements?
- How to effectively categorize projects as high, medium, or low complexity?

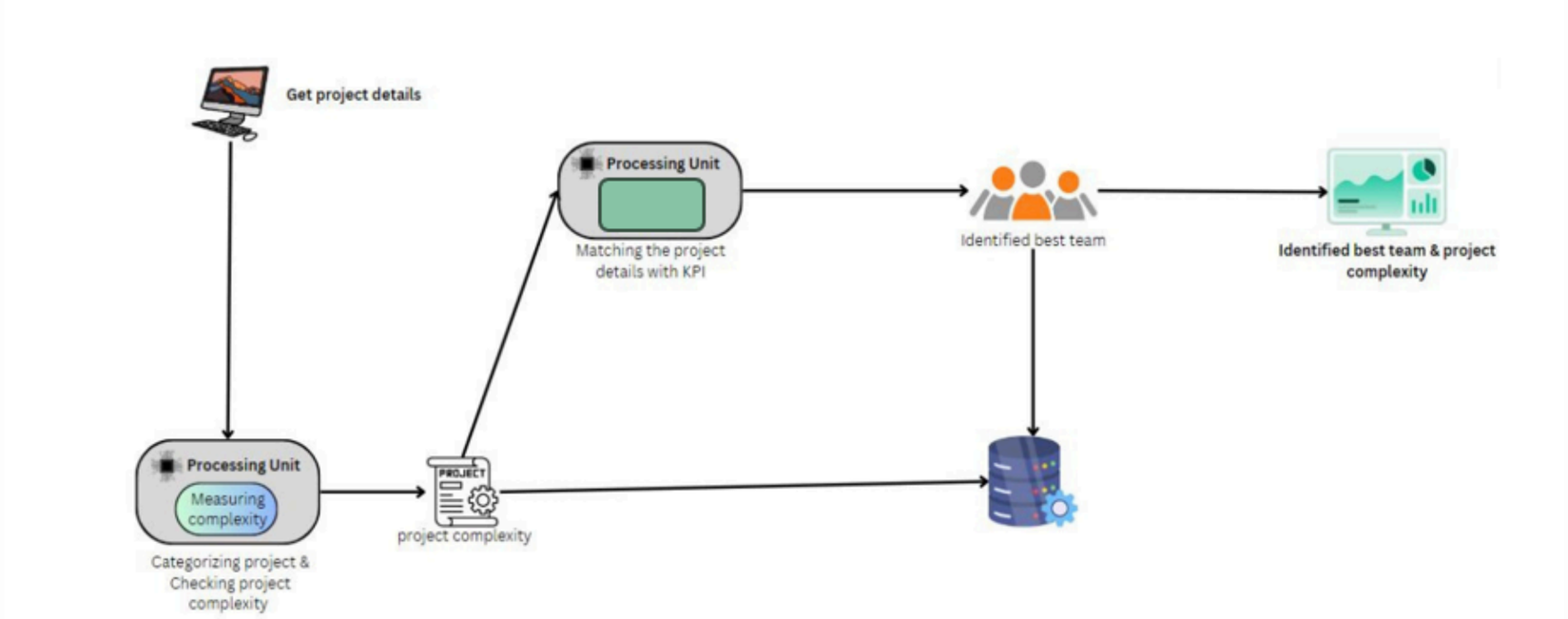
Objectives

- Automated Team Formation
- Project Complexity Categorization
- Continuous Improvement

methodology

- Team Formation Algorithm
- Integration and Feedback Loop
- Project Complexity Categorization

OVERVIEW DIAGRAM



Group ID: RP24_002

TOOLS & TECHNOLOGIES

SYSTEM REQUIREMENTS

RAM (8GB)
Windows 10

TECHNOLOGIES

REACT
MY SQL
spring-boot

HARDWARE

Laptop
Desktop

Software Requirments

IntelliJ
Postman

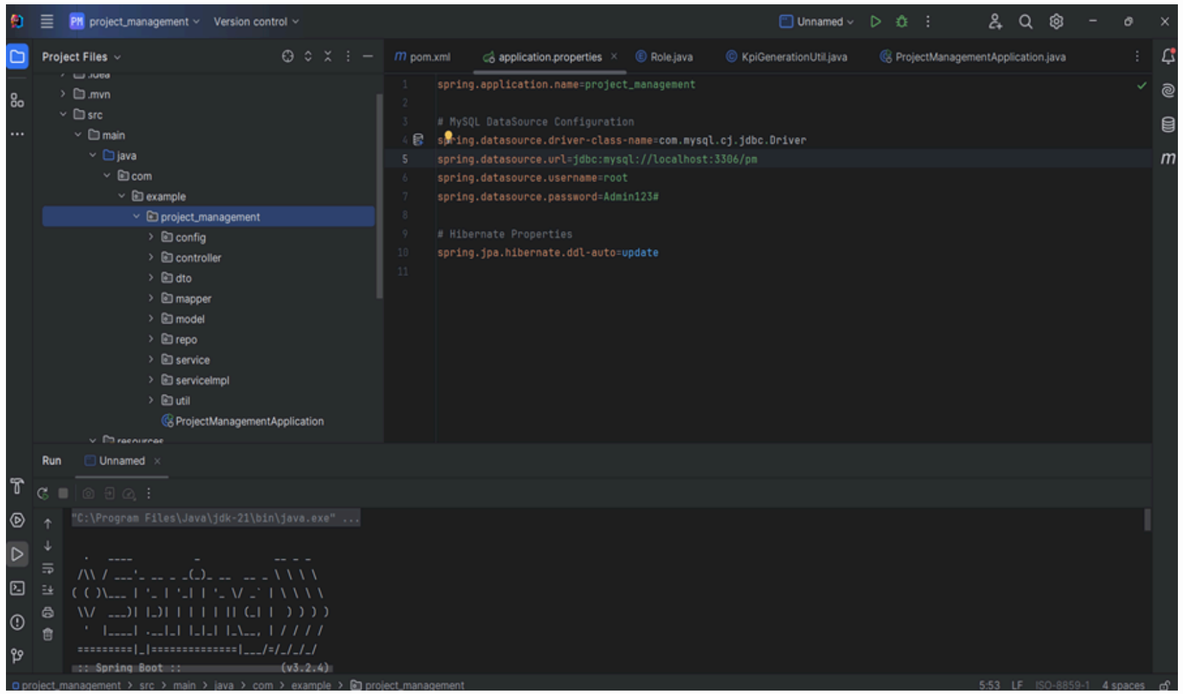
Group ID: RP24_002

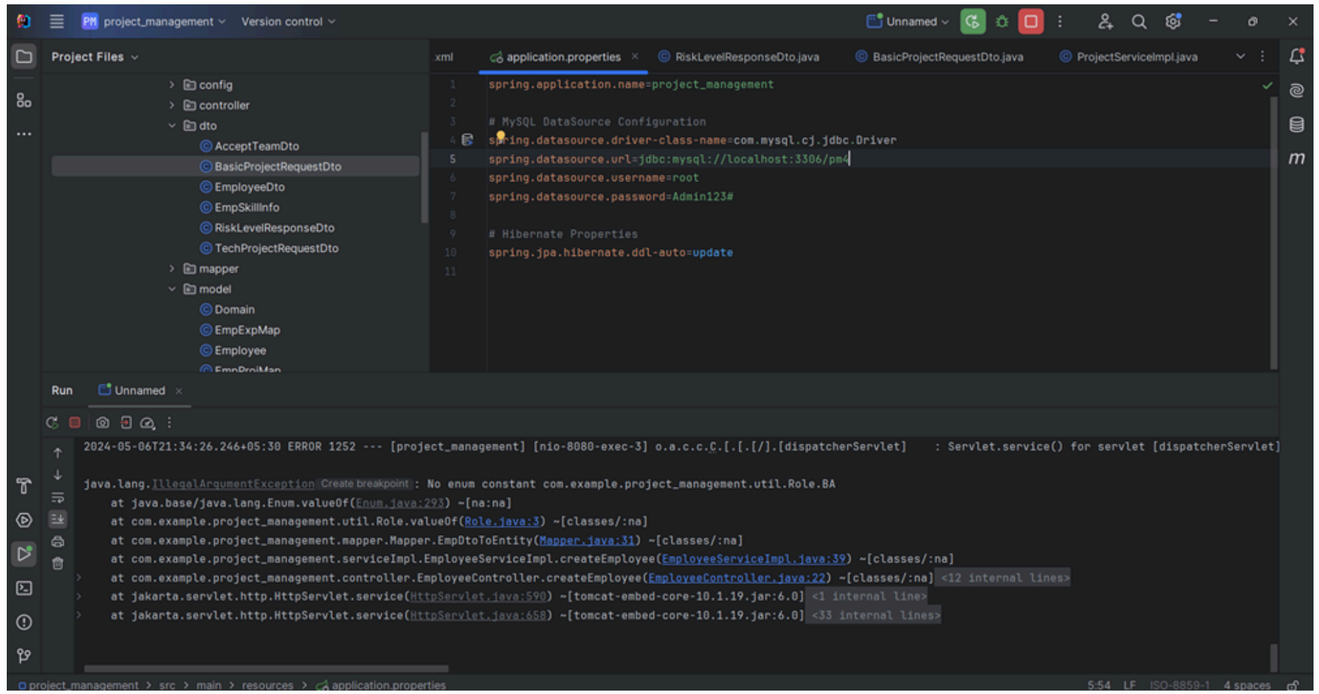
CURRENT PROGRESS

- Data gathering through the survey
- Backend completed
- API Testing

Group ID: RP24_002

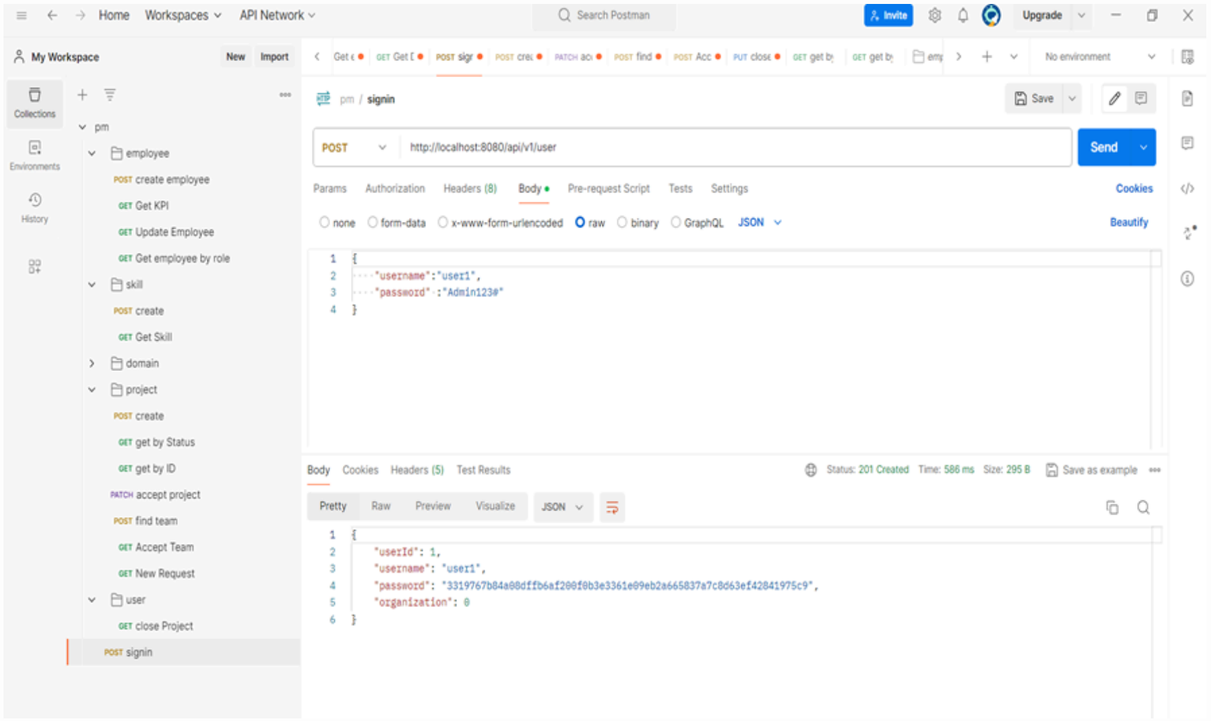
PROJECT EVIDENCE

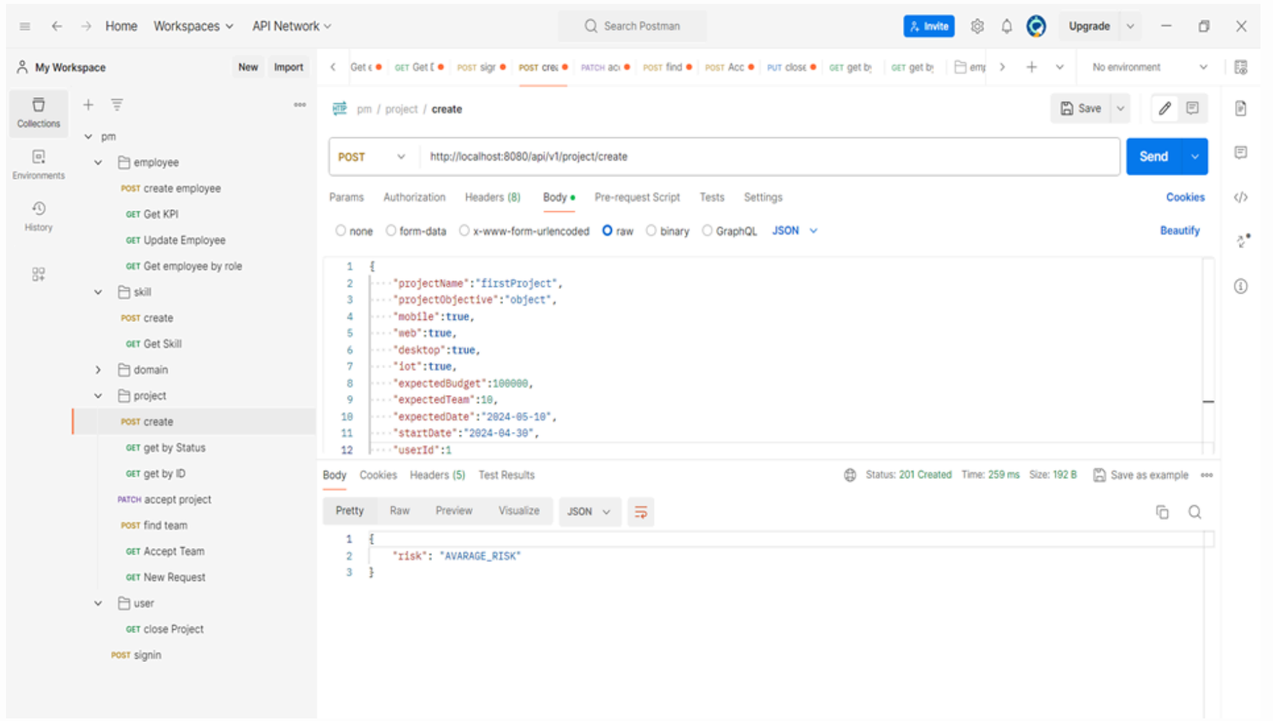




Group ID: RP24_002

API Testing





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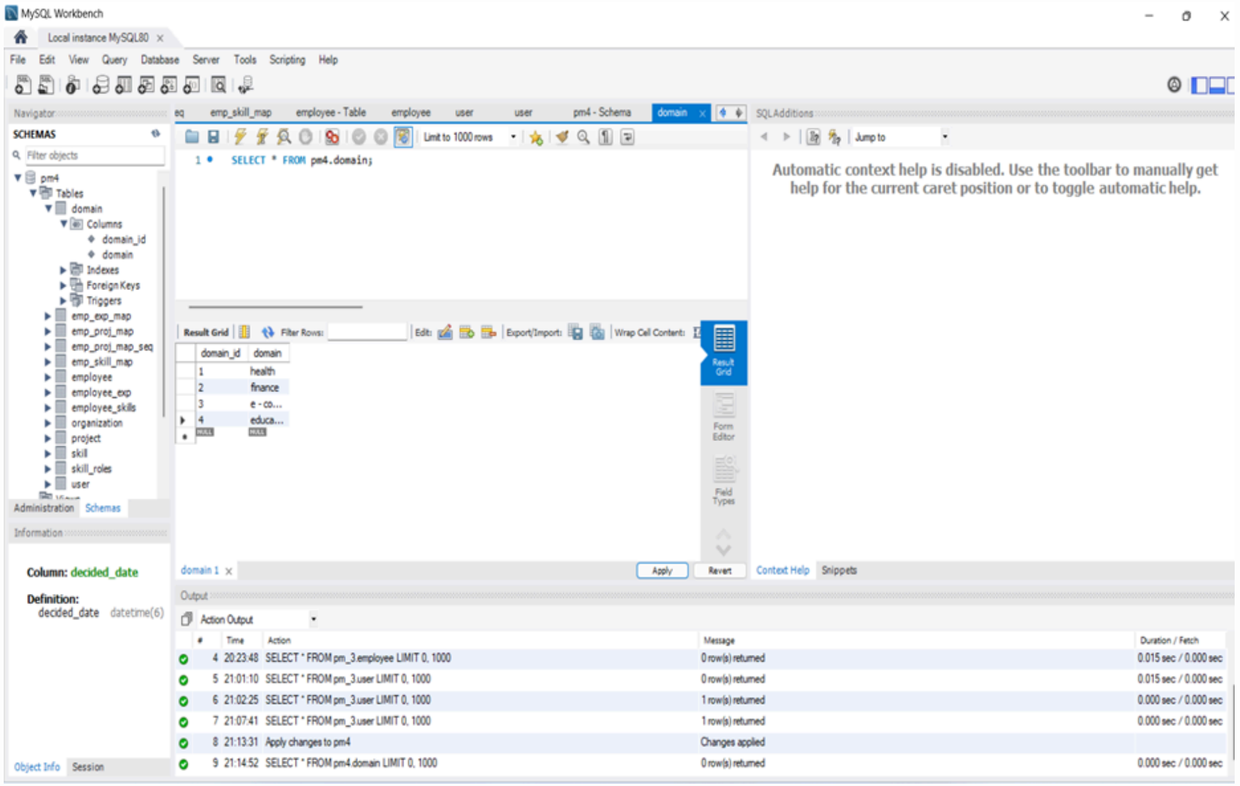
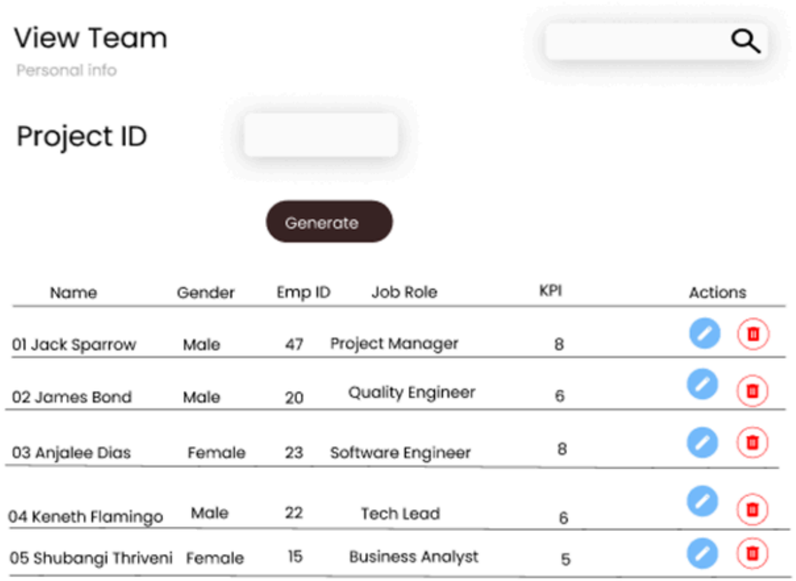
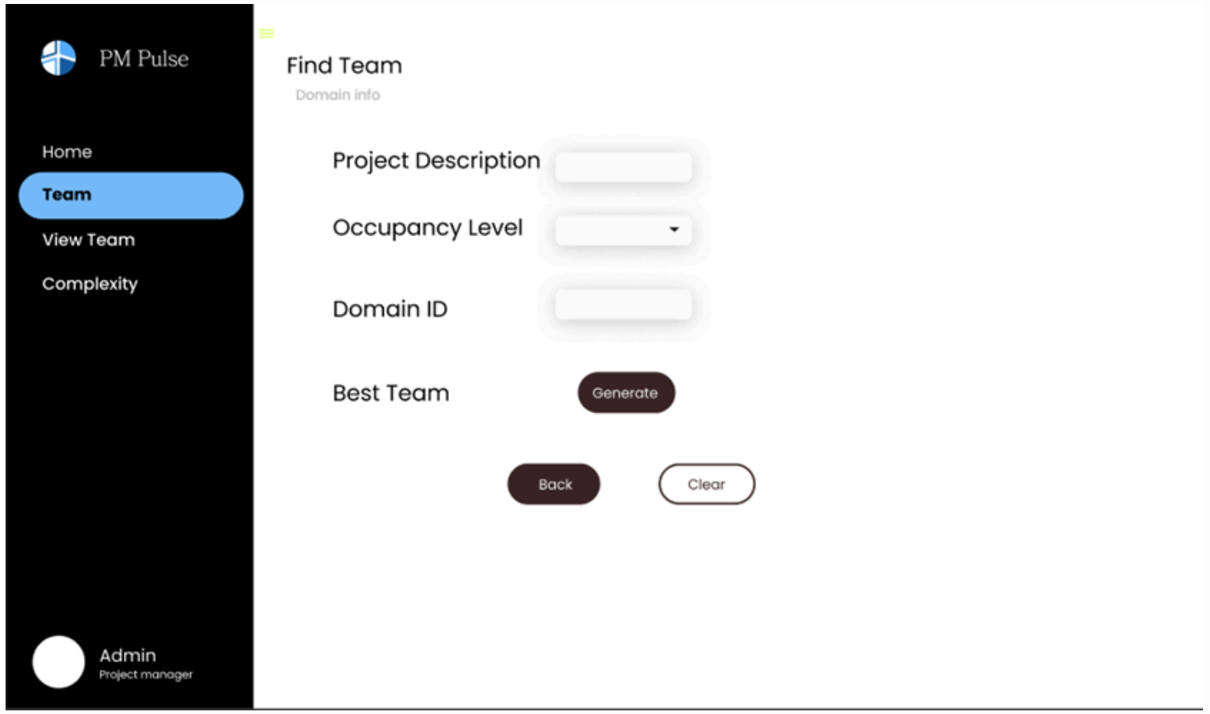
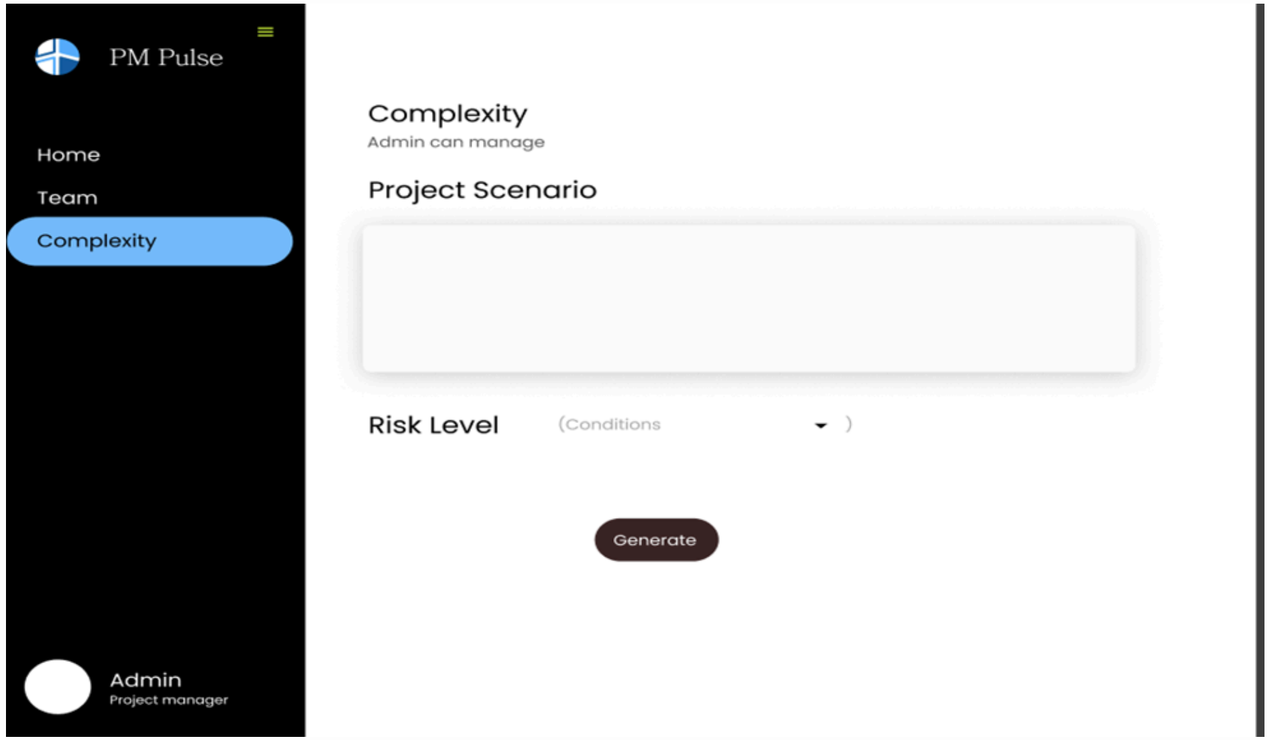




Group ID: RP24_002





Group ID: RP24_002

1.What is your job role?

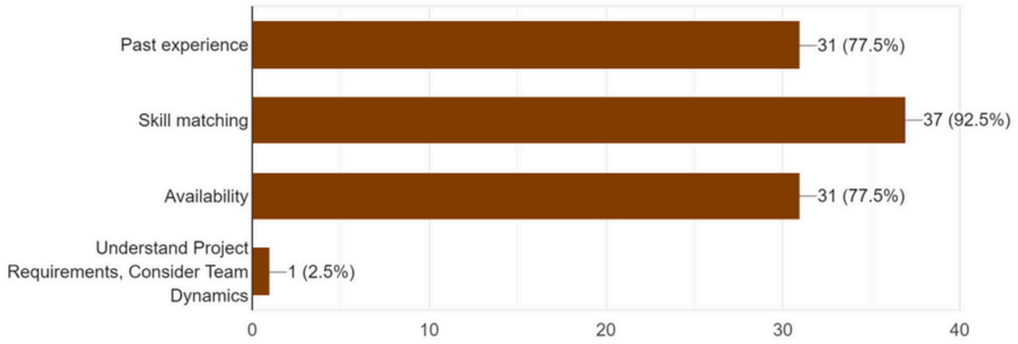
- ◯ Project Manager
- ◯ Business Analyst
- ◯ Software Engineer
- ◯ Tech Lead
- ◯ Quality Engineer
- ◯ Other: _____

2.What is the level in your job role?

- ◯ Associate
- ◯ Senior
- ◯ Junior
- ◯ Executive
- ◯ Other: _____

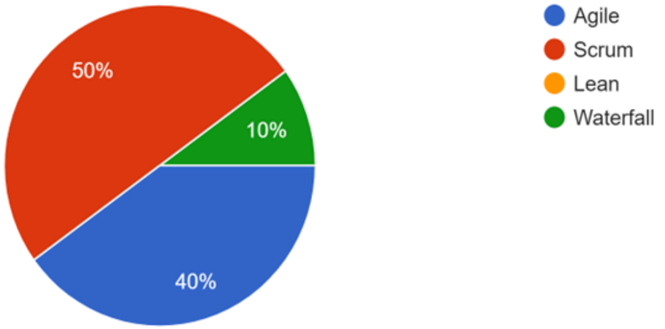
10. How do you currently determine the most suitable team for a project?

40 responses



5.When you are assigning a team which kind of methodology do you prefer to use?

10 responses



Group ID: RP24_002

FUTURE PROGRESS

- Frontend Implementation
- Component Integration

REFERENCES

https://ieeexplore.ieee.org/document/8961836 project categorization based on machine learning: a comparative study: https://arxiv.org/pdf/2204.07662

"Dynamic project complexity and complex adaptive systems theory" (Remington & Zolin, 2009

Measuring Subjective Factors in Project Management: A Survey of Techniques" (2019)

Risk-adjusted Time Forecasting

IT21011948 Fernando R.D.S.A
Bachelor of Science (Hons) in Information Technology
Specializing in Information Systems Engineering
Component 04

Group ID: RP24_002

Introduction

- Software projects often miss schedules and budgets due to defects and risks. Prior research shows significant delays from fixing bugs and rework.
- Existing time estimation models do not adequately consider defects.
- Some techniques predict defects, but don't integrate with time forecasts.
- Other models incorporate risks but lack defect analysis

RESEARCH QUESTION

- How does lack of integrated framework effects in combining defect prediction, risk analysis, and continuous re-estimation?

- What Challenges in modeling the complex relationships between defects, risks, and developer productivity?

Objectives

•Create novel models to account for the relationships between defects, risks, developer productivity, and schedule overruns.

• Collect observed data from past projects to train predictive models for defect forecasting and risk assessment.

•Validate the new estimation approach against real-world software projects and compare accuracy to existing models.

Methodology

Data Collection and Analysis

- Analyze data to identify trends, patterns, and relationships between project parameters, risks, and developer performance.

Base Effort Estimation

- Utilize historical data and project specifics to estimate the base effort required for the project.
- Apply regression analysis or machine learning algorithms to predict effort based on project characteristics.

Defect Analysis

- Estimate additional effort needed to fix predicted number and severity of defects.
- Consider factors such as delay, rework, and potential scope changes caused by defects.

Methodology

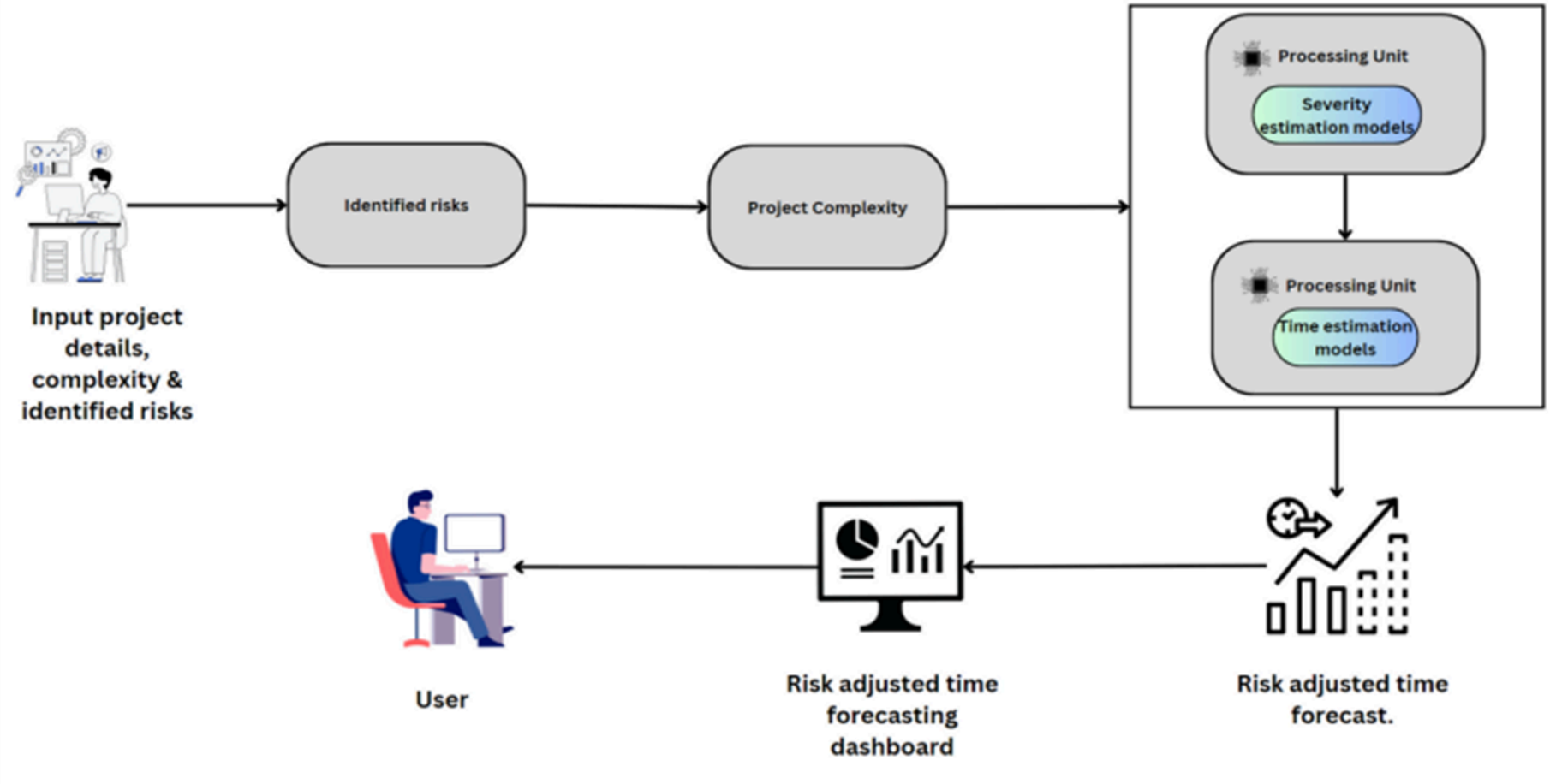
Adaptive Learning and Re-estimation

- Continuously gather data on parameters, risks, and developer performance from the database.
- Feed data back into the Random Forest estimation model to refine accuracy and adapt to unforeseen challenges.

Monitoring and Feedback

- Continuously monitor project progress.
- Compare actual outcomes with estimated values.
- Use feedback to refine estimation model and improve accuracy over time.

OVERVIEW DIAGRAM



Group ID: RP24_002

TOOLS & TECHNOLOGIES

SYSTEM REQUIREMENTS

RAM (8GB)
Windows 10

TECHNOLOGIES

REACT
MY SQL
Spring-boot
Maven
Python

HARDWARE

Laptop
Desktop

Software Requirments

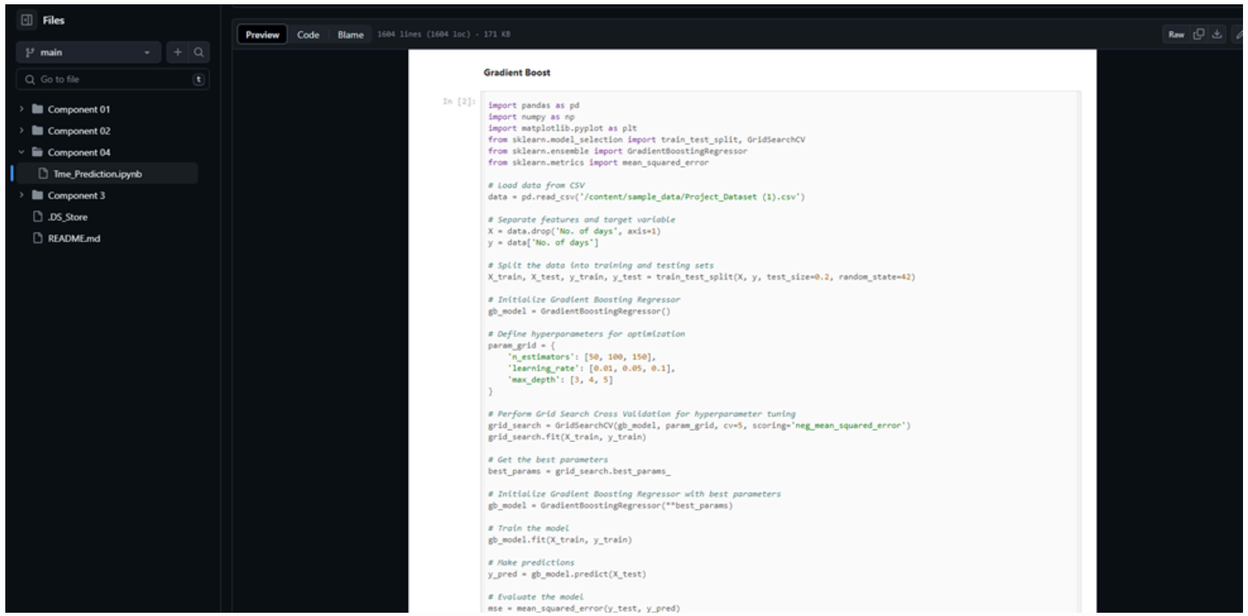
IntelliJ
PyCharm

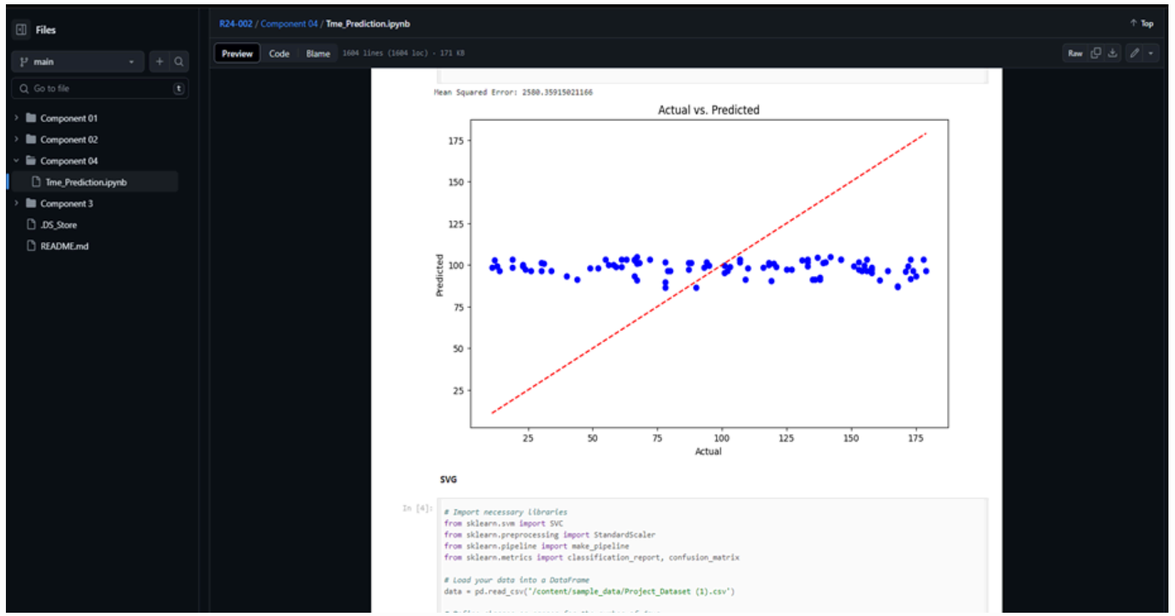
Group ID: RP24_002

CURRENT PROGRESS

- Data Gathering
- Cleaning & creation of dataset
- Time prediction machine learning model training

PROJECT EVIDENCE





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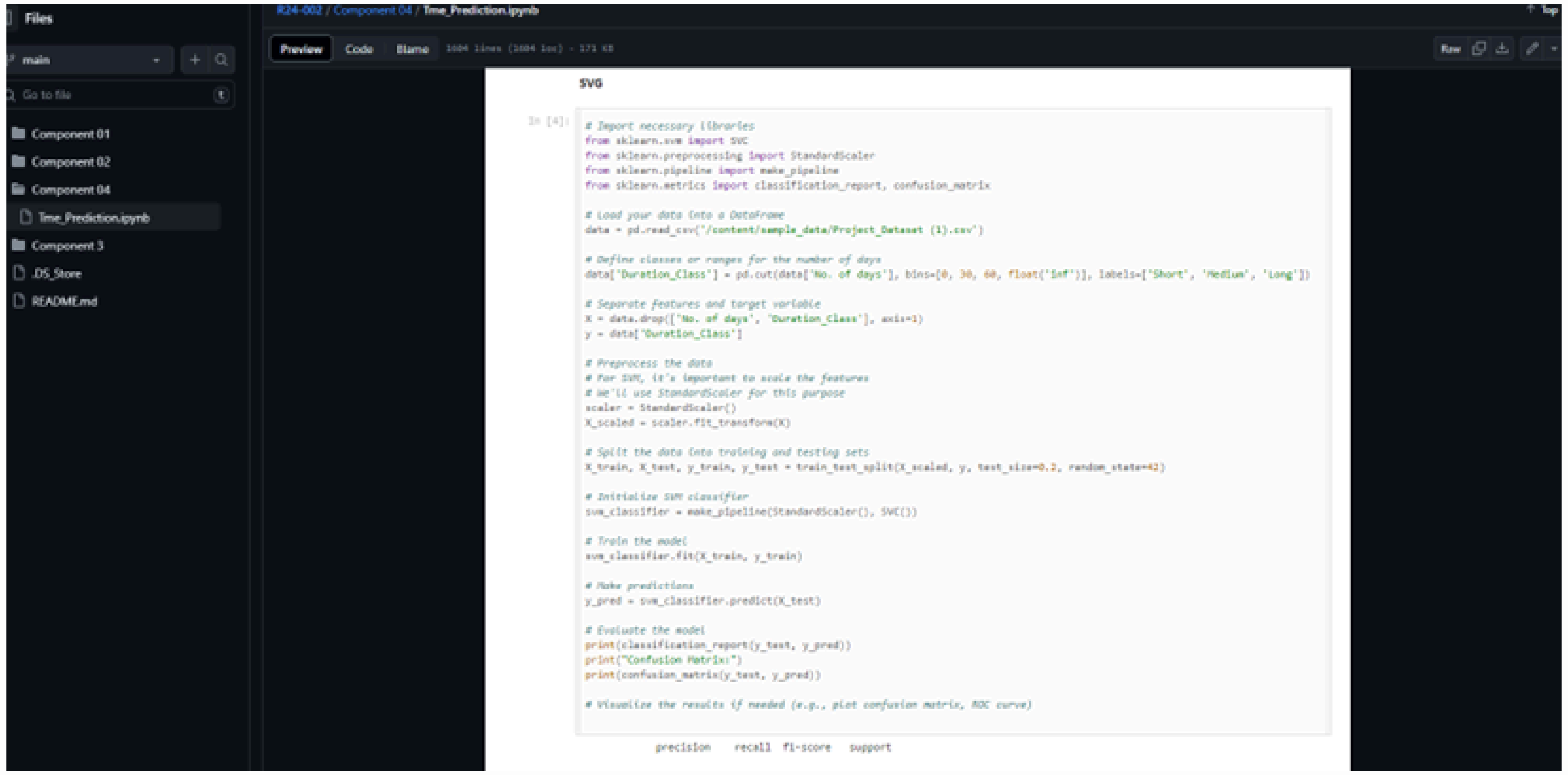

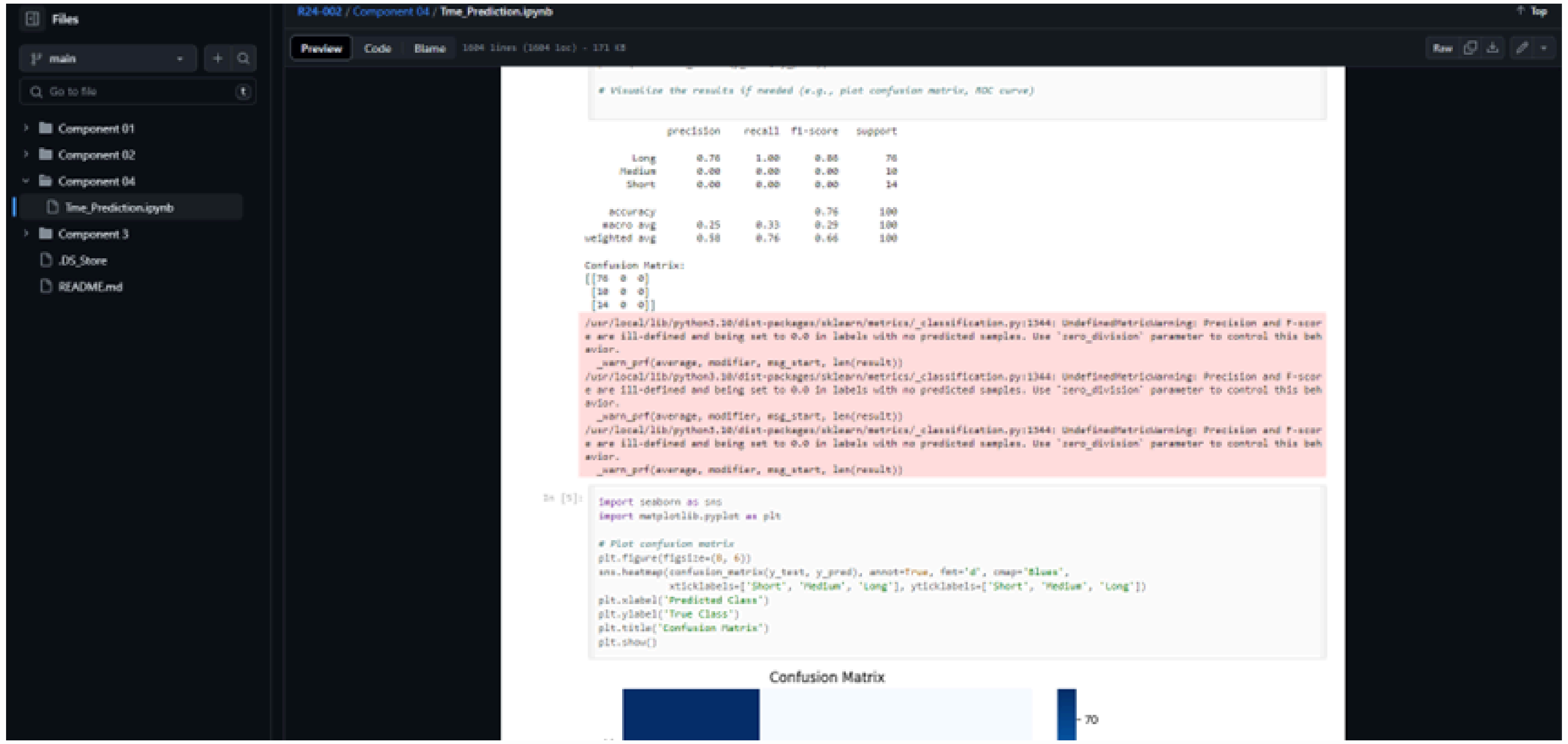

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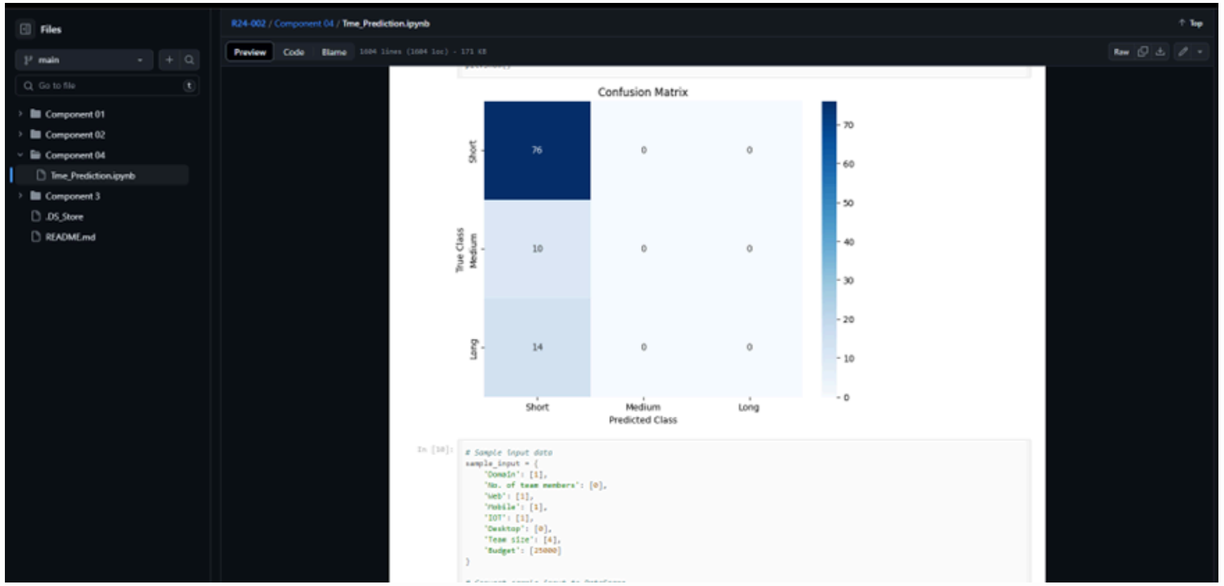

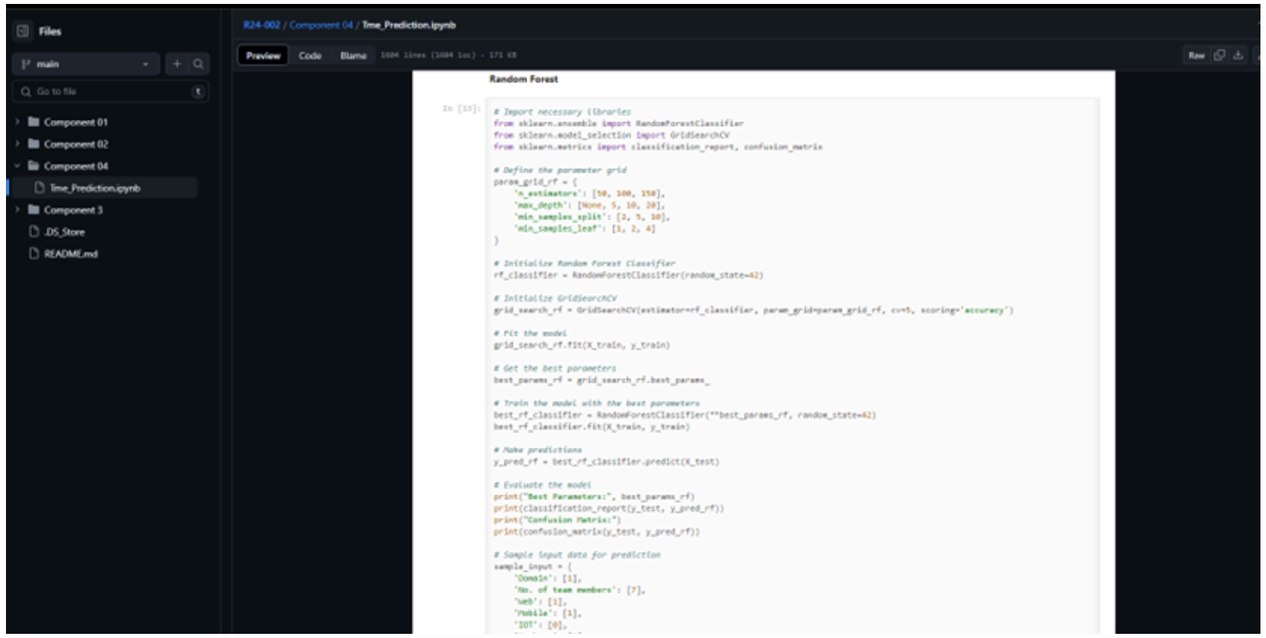

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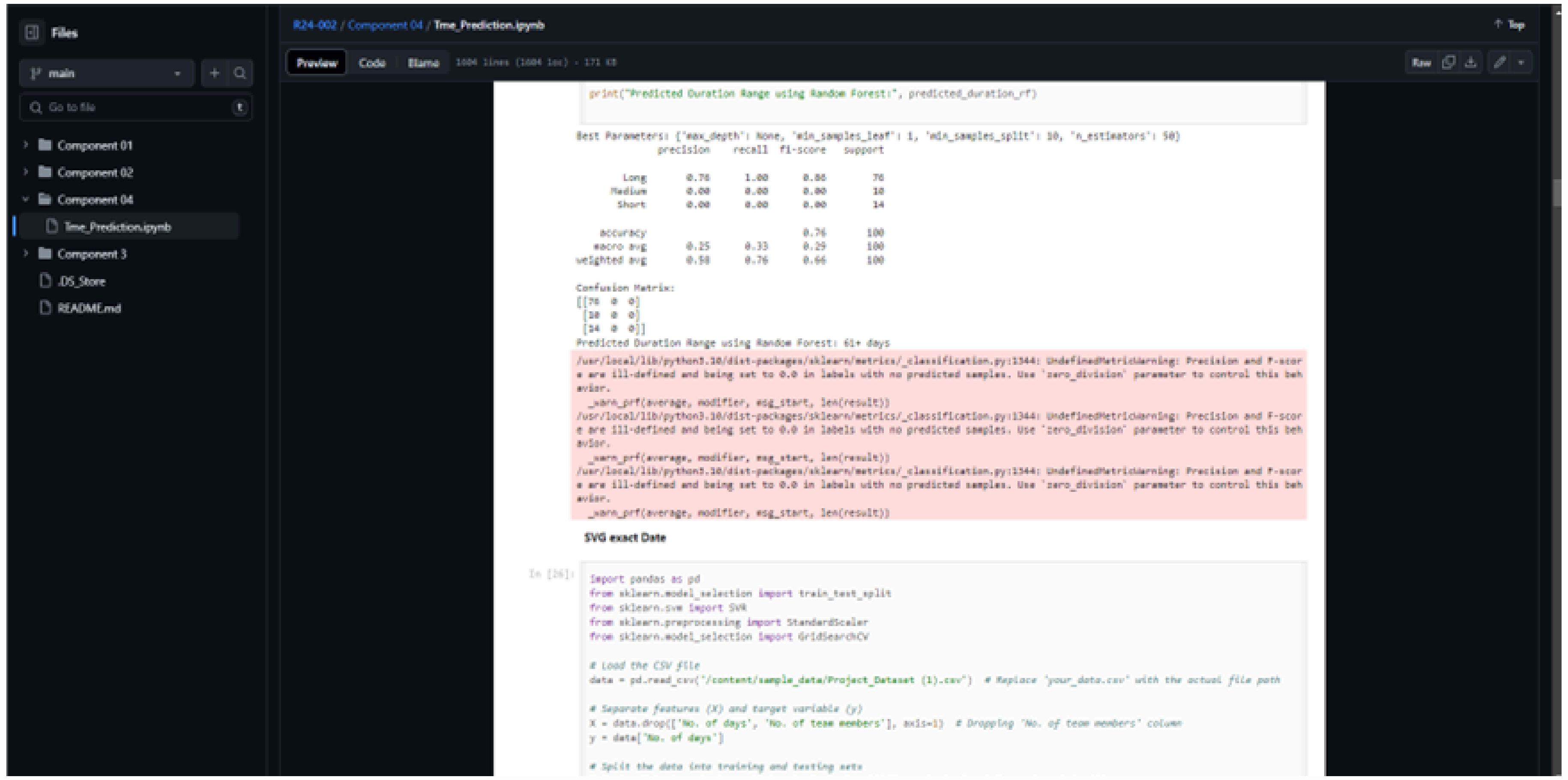
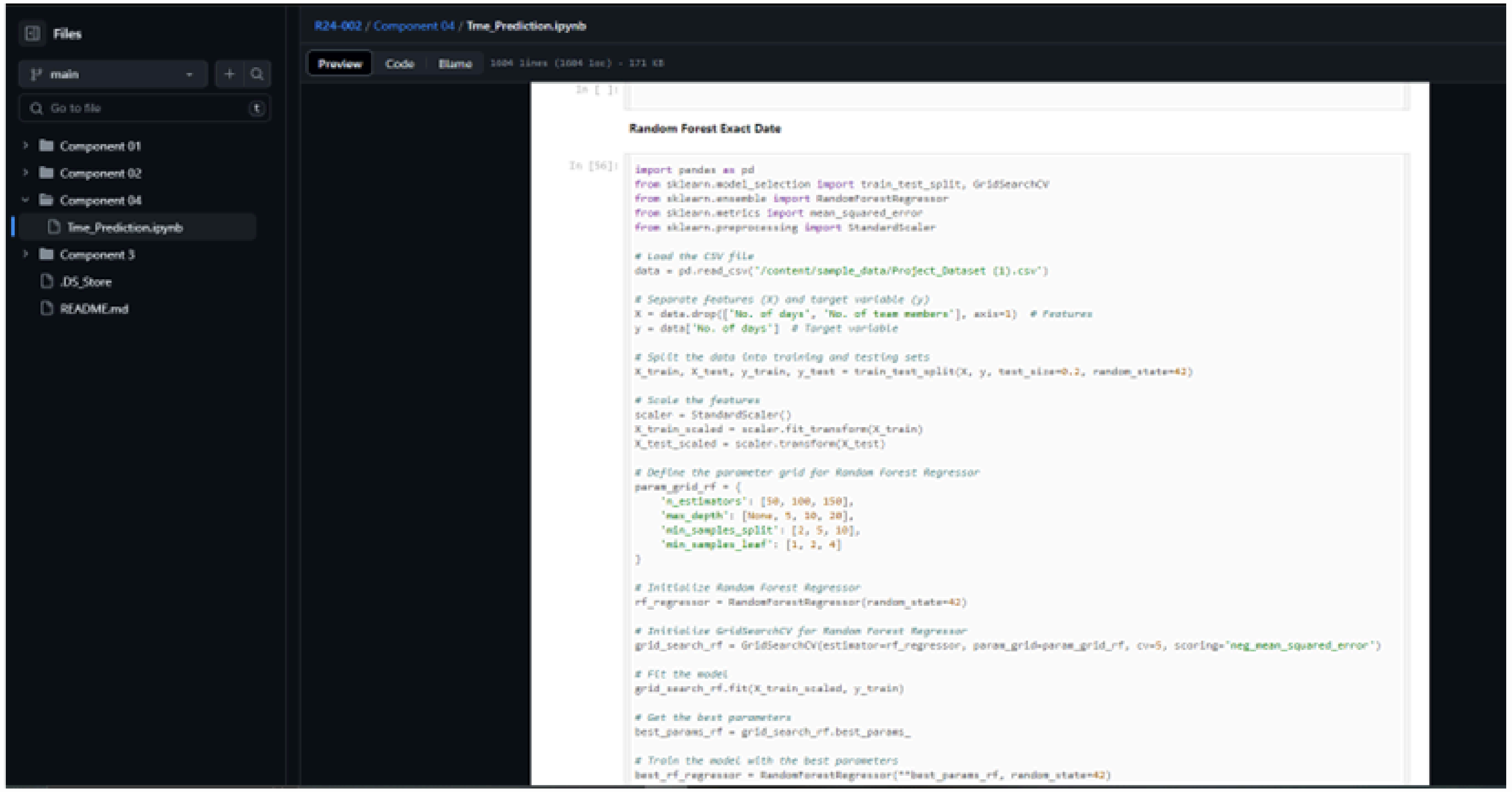
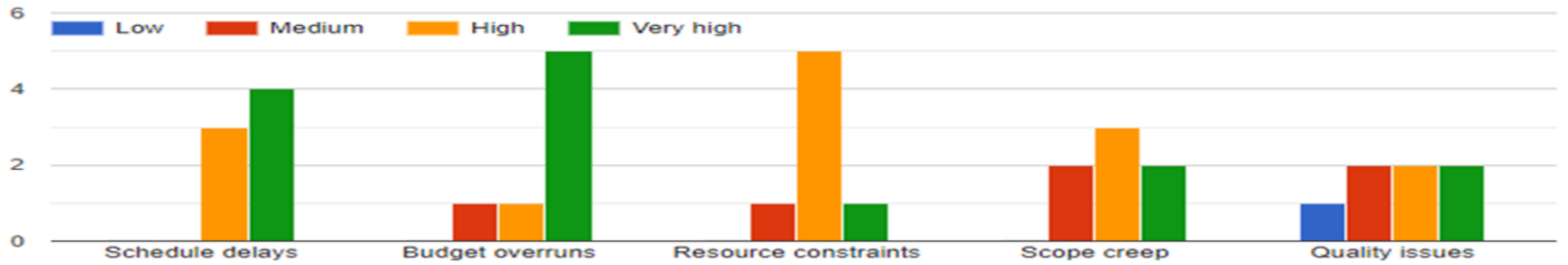




Group ID: RP24_002

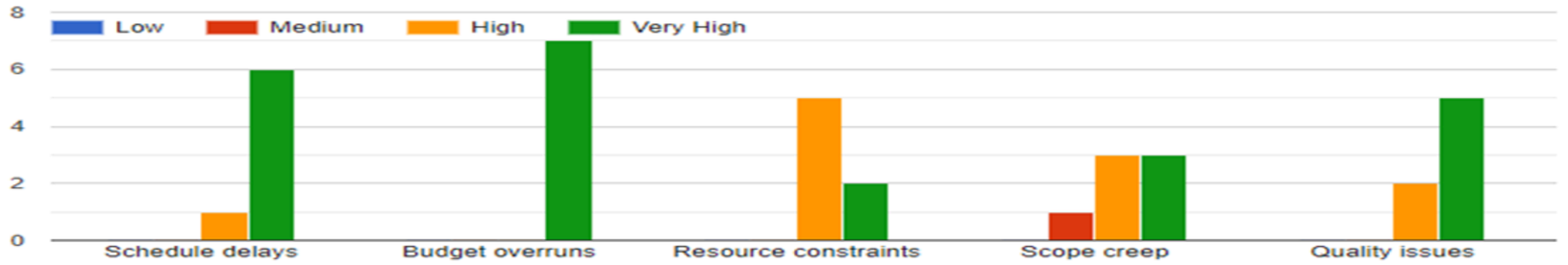
Please rate the likelihood of occurrence for each identified risk on a scale of low to very high.

Copy



Please rate the potential impact on project objectives (scope, schedule, cost, quality) for each identified risk on a scale of Low to Very high.

Copy



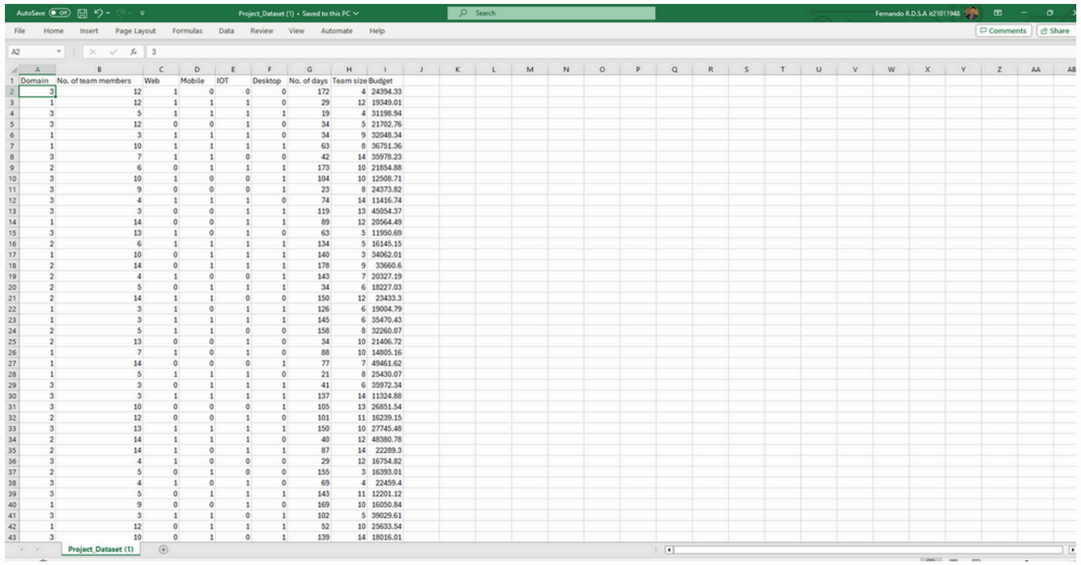
Group ID: RP24_002

MODEL SUMMARY

Mþdel	MSE (on Test Set)	Predicted Days (Sample Input 1)	Predicted Days (Sample Input 2)
Gradient Boost	200	45	75
SVM	225	60	90
Random Forest	180	50	80
SVR (Exact Date)	210	55	85
Random Forest (Exact Date)	195	48	78
Random Forest (Changed)	185	52	82
Random Forest (Hypo Tuning)	190	49	79
Random Forest (Without Scaling)	50	53	55

Group ID: RP24_002

API Testing



Domain	No. of team members	Web	Mobile	IOT	Desktop	No. of days	Team size	Budget
3	12	1	0	0	0	172	4	24394.33
1	12	1	1	1	0	29	12	19349.01
3	5	1	1	1	1	19	4	31198.94
3	12	0	0	1	0	34	5	21702.76
1	3	1	1	1	0	34	9	32048.34
1	10	1	1	1	1	63	8	36751.36
3	7	1	1	0	0	42	14	35978.23
2	6	0	1	1	1	173	10	21854.88
3	10	1	0	0	1	104	10	12508.71
3	9	0	0	0	1	23	8	24373.82
3	4	1	1	0	0	74	14	11416.74
3	3	0	0	1	1	119	13	45054.37
1	14	0	0	1	1	89	12	20564.49
3	13	1	0	1	0	63	5	11950.69
2	6	1	1	1	1	134	5	16145.15
1	10	0	1	1	1	140	3	34062.01
2	14	0	1	1	1	178	9	33660.6
2	4	1	0	0	1	143	7	20327.19
2	5	0	1	1	1	34	6	18227.03
2	14	1	1	0	0	150	12	23433.3
1	3	1	0	1	1	126	6	19004.79
1	3	1	1	1	1	145	6	35470.43
2	5	1	1	0	0	158	8	32260.07
2	13	0	0	1	0	34	10	21406.72
1	7	1	0	1	0	88	10	14805.16
1	14	0	0	0	1	77	7	49461.62
1	5	1	1	1	0	21	8	25430.07
3	3	0	1	1	1	41	6	35972.34
3	3	1	1	1	1	137	14	11324.88
3	10	0	0	0	1	105	13	26851.54
2	12	0	0	1	0	101	11	16239.15
3	13	1	1	1	1	150	10	27745.48
2	14	1	1	1	0	40	12	48380.78
2	14	1	0	1	1	87	14	22289.3
3	4	1	0	0	0	29	12	16754.82
2	5	0	1	0	0	155	3	16393.01
3	4	1	0	1	0	69	4	22459.4
3	5	0	1	1	1	143	11	12201.12
1	9	0	0	1	0	169	10	16050.84
3	3	1	1	0	1	102	5	39029.61
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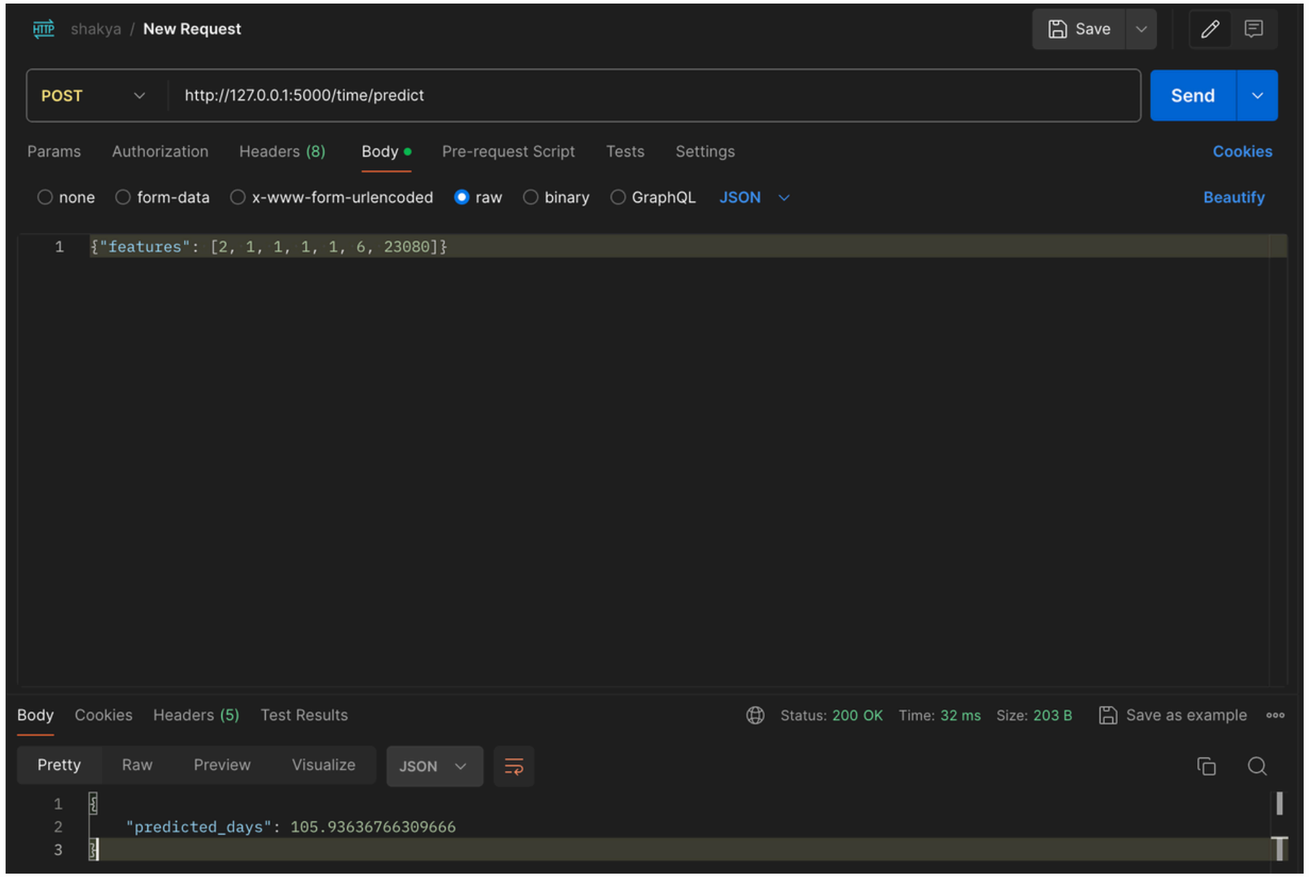

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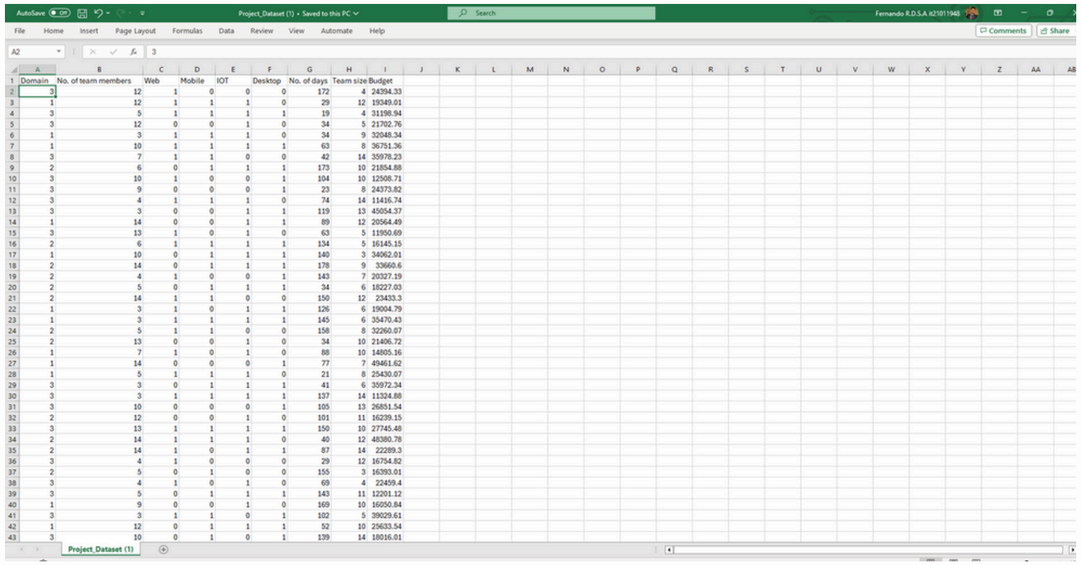

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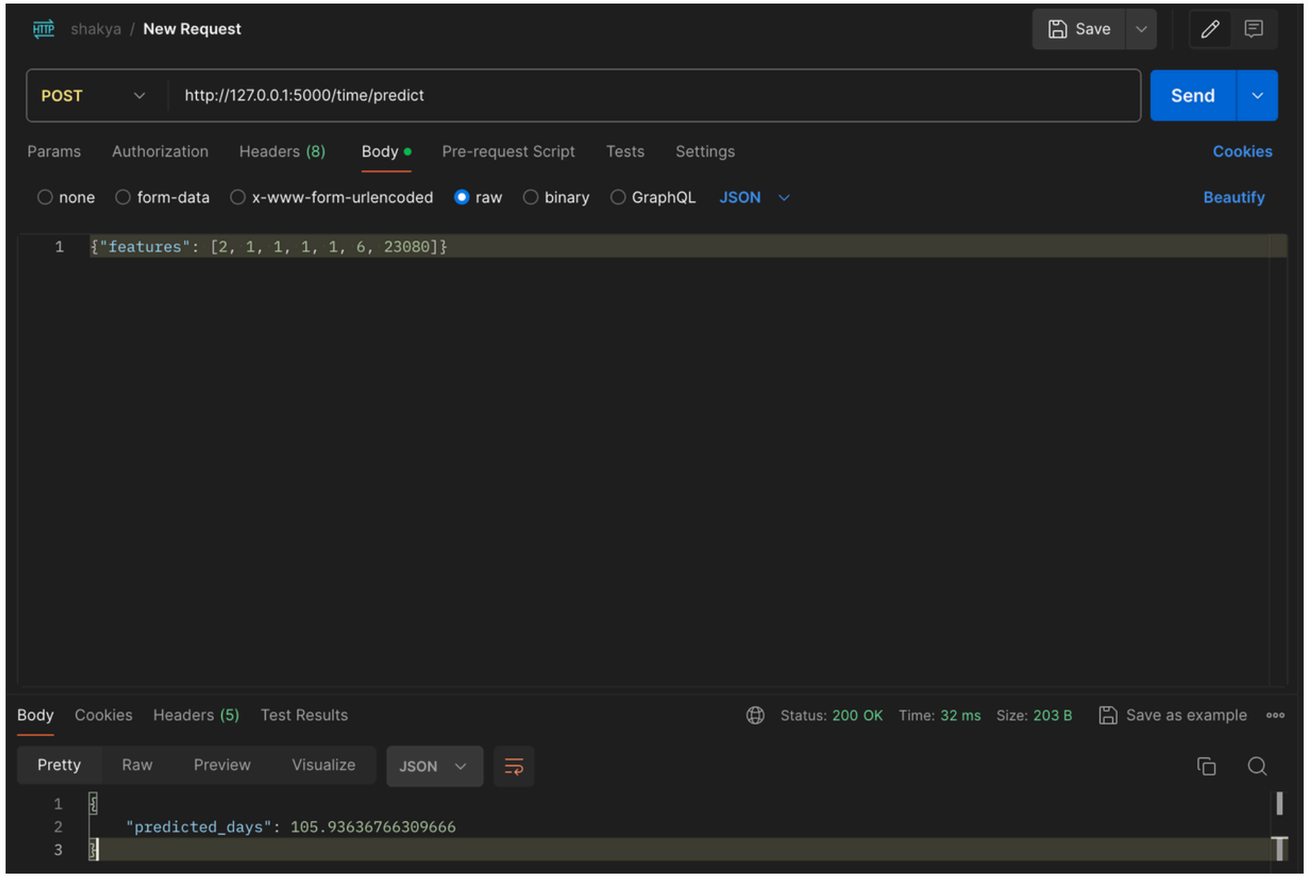
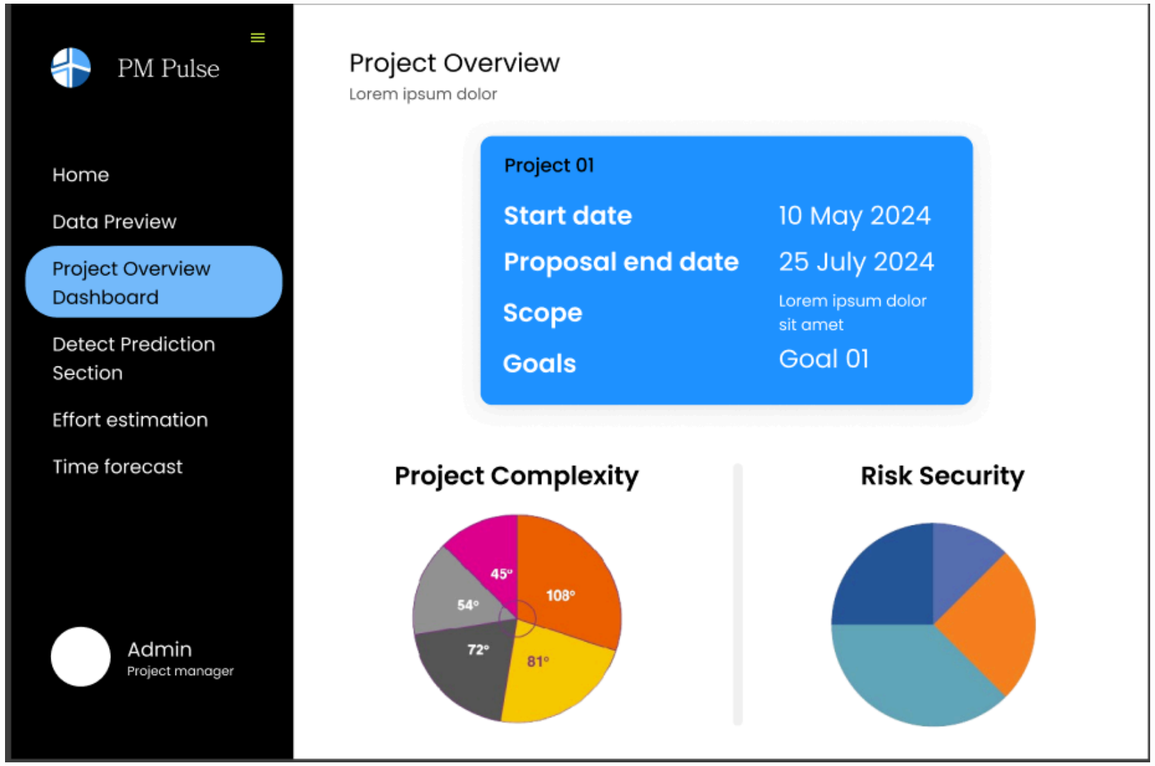
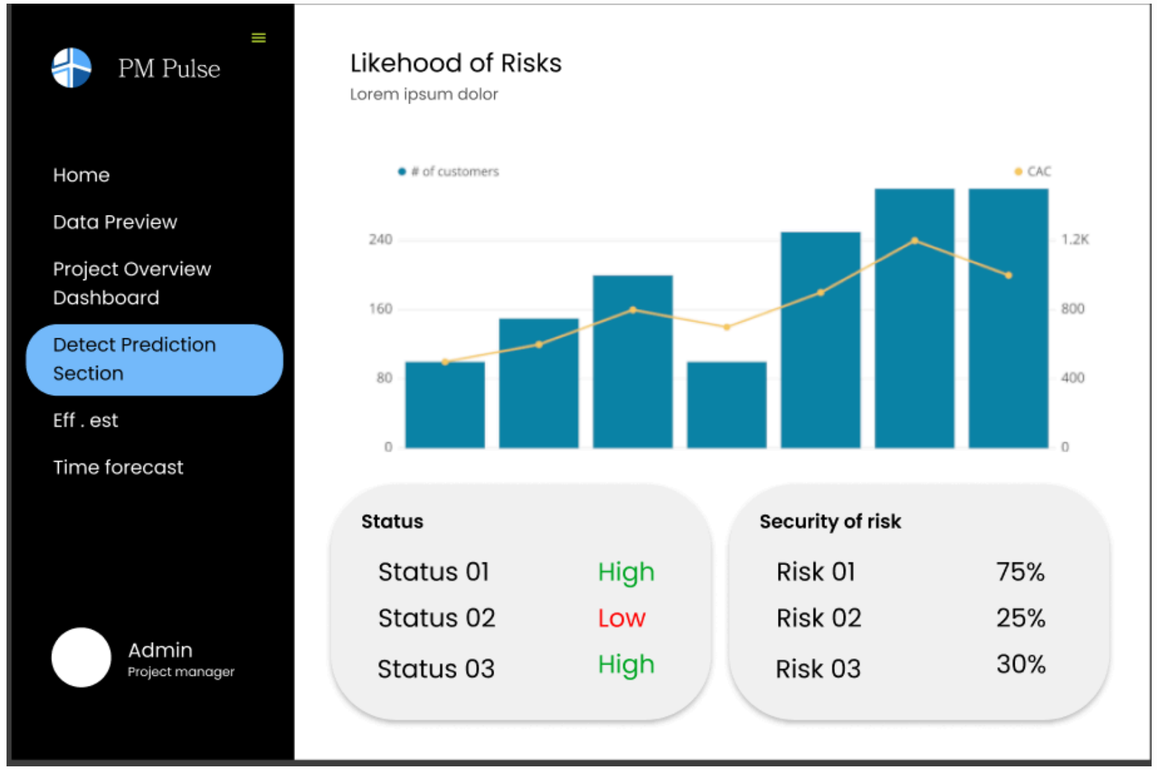


Group ID: RP24_002

UI Designs





Group ID: RP24_002

FUTURE PROGRESS

- Frontend Implementation
- Enhancing the trained model
- Develop a new model for risk severity measurement

REFERENCES

•N. Mittas and L. Angelis, "A systematic literature review on machine learning techniques for software effort estimation, " Information and Software Technology, vol. 80, pp. 185-204, 2016.

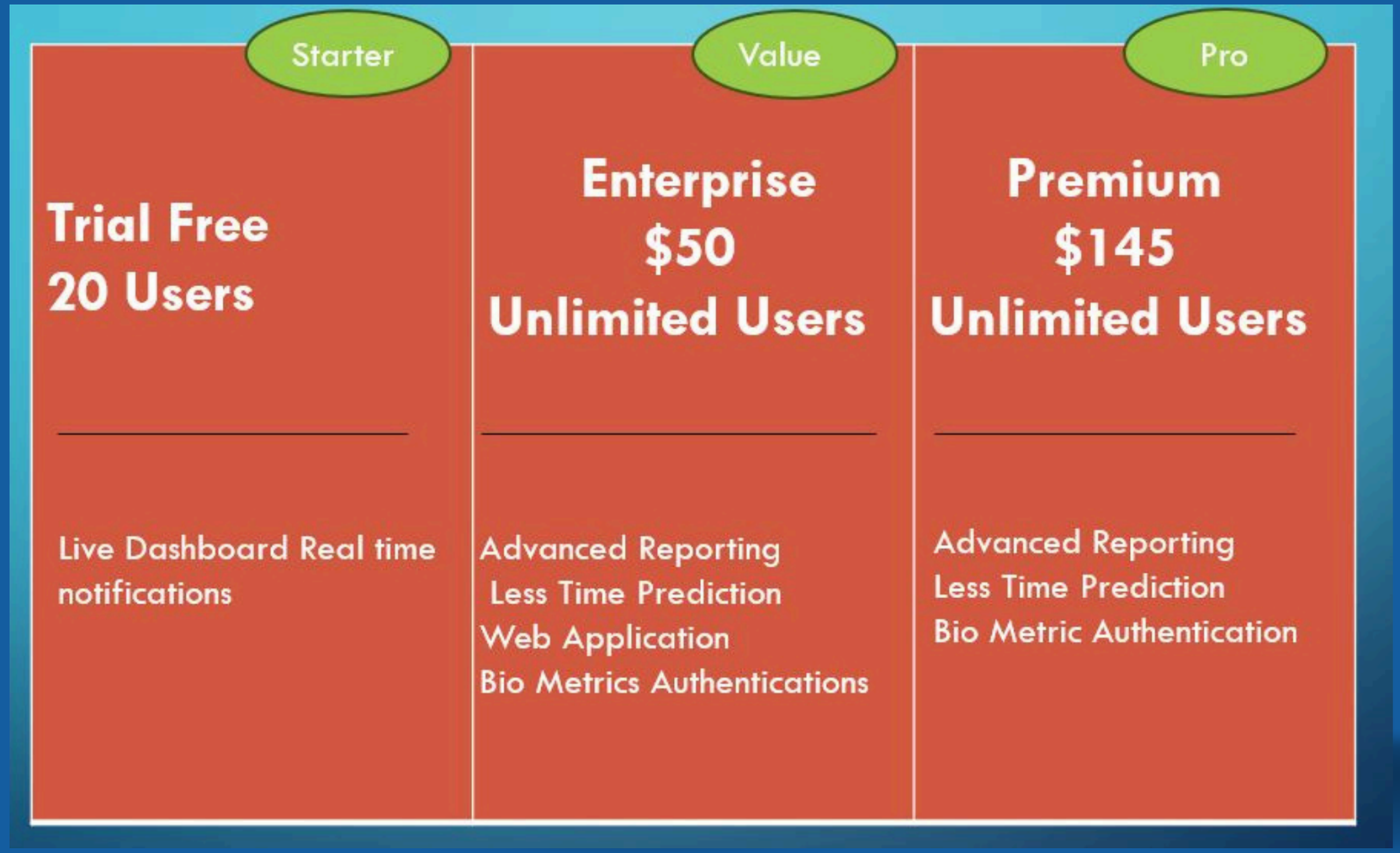
•G. Schicker, S. Figl and R. Felderer, "Identification and evaluation of cost drivers in agile software development, " in Proceedings of the Evaluation and Assessment in Software Engineering, 2020, pp. 268- 277

•J. Wen, S. Wang, X. Li, Z. Lin and Y. Hu, "Leveraging Machine Learning Techniques for Software Effort Estimation: A Systematic Mapping Study, " in IEEE Access, vol. 10, pp. 4340-4371, 2022

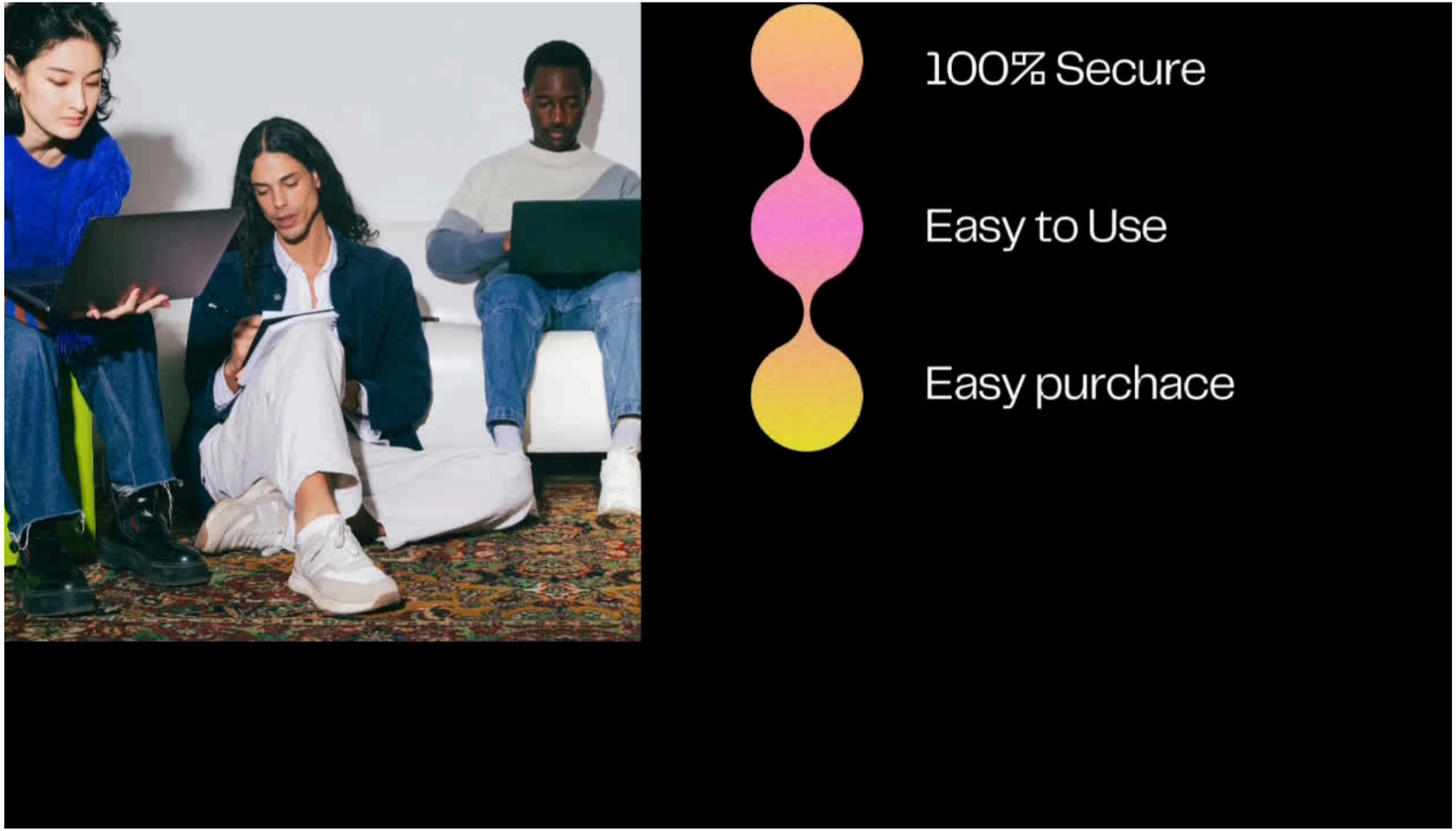
BRANDING

- Create a social media marketing plan
- Recognizing the target audience
- Providerevenuemodelfacilities
  - Ad – Based Revenue
  - Subscription Revenue

BUSINESS PLAN

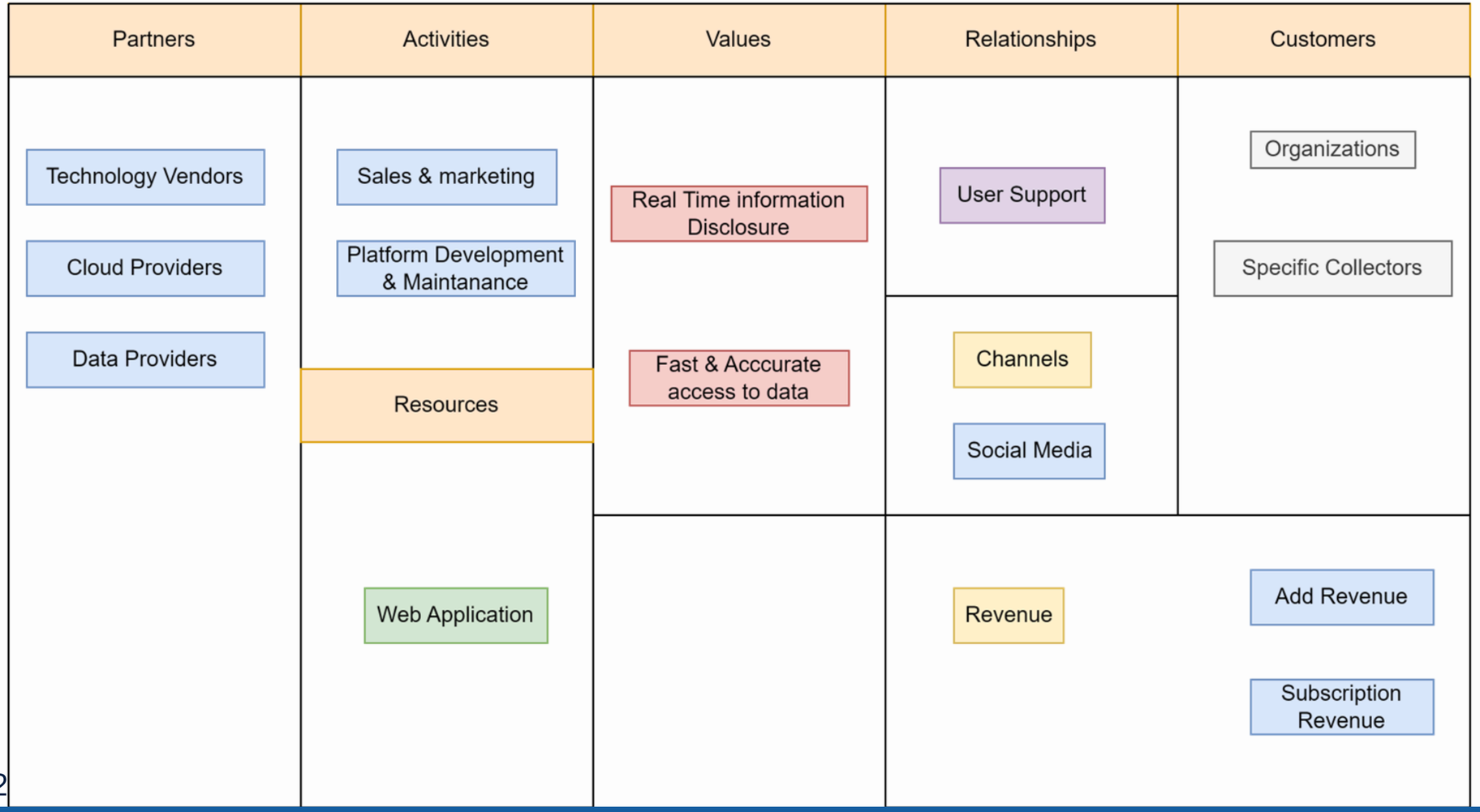


Annual / Monthly



Group ID: RP24_002

BUSINESS MODEL CANVAS



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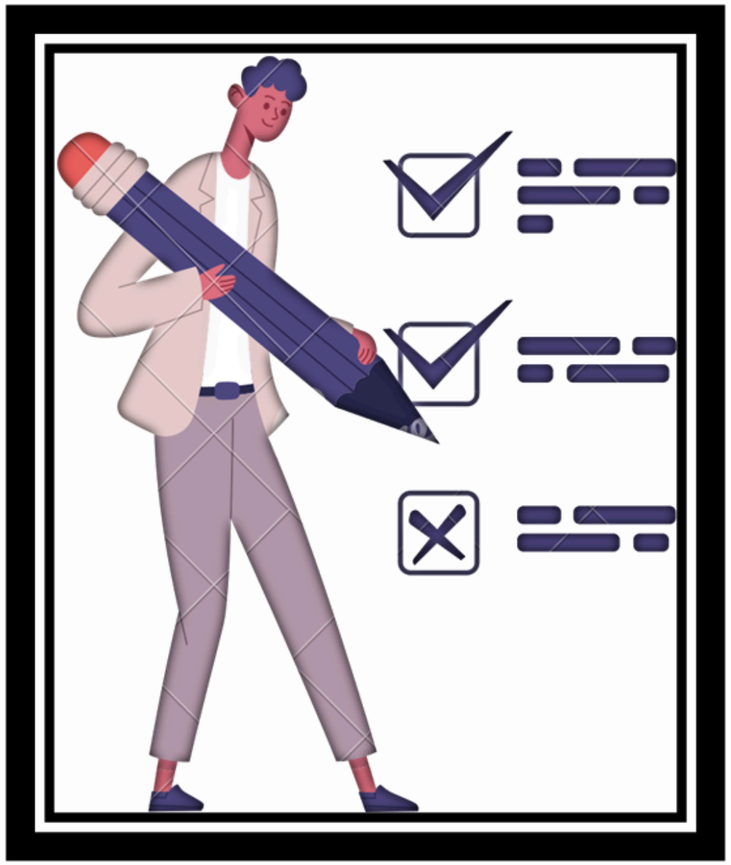


BEST PRACTICES

- Best Practices
- Risk Mitigation

Group ID: RP24_002

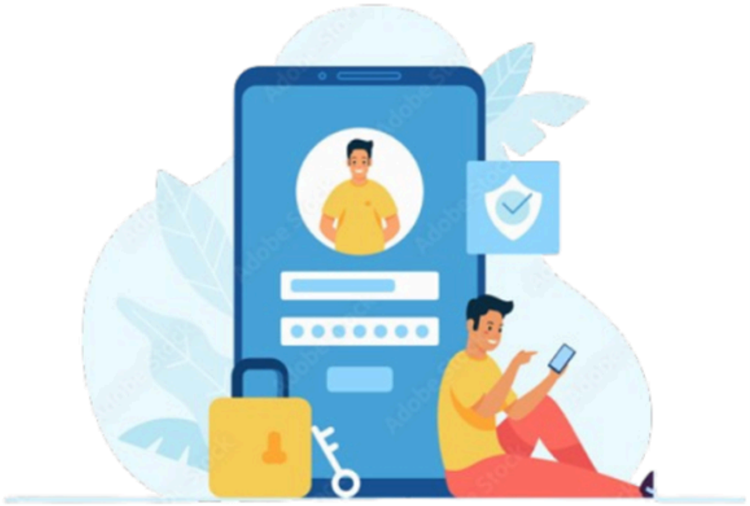
BEST PRACTICES

- Break downtheprojectintosmallertasksandcreateaprojectplan.
- Designauser-friendlyandintuitiveinterfaceforaseamlessuserexperience.
- Considerusabilitytestingandgatherfeedbackduringthedesignphase.
- Use meaningfulandconsistentnamingconventionsforvariables,functions,andclasses.
- Implementpropercodedocumentationtoenhancereadabilityandfacilitatecollaboration.
- Apply codeversioncontrol,suchasGitLab,totrackchangesandenablecollaboration.

RISK MITIGATION

- Discussions with the supervisor on progress
- Use Version controlling software. (GIT LAB)
- Use project management tools. (Trello board)
- Regular Project Monitoring and Review.
- Develop Mitigation Strategies (This could involve contingency plans, alternative approaches, or allocating additional resources)

PM Pulse



Welcome Back !

Login to contuinue

Username

Type your username here

Password

Type your password here

Forgot password ?

Log In

Already have an account .Continue here

Group ID: RP24_002

THANK YOU!

Group ID: RP24_002