Sprint #1 Review

📅 Date

Apr 12, 2024

👥 Participants

- @Yeji Kim @Hosang Yoon @Mandeep @Vinith
- Internal Stakeholders (Executives), Customers

🏁 Goals

- Functionality Check for Sprint #1 and Sharing of the Prediction Model Prototype

📋 Overview

Sprint summary

Sprint goal	Basic feature for accessing user accounts and an application form
User Stories	1. Create an account 2. Authenticate a user 3. Fill in the application form
Sprint Period	Apr 1, 2024 - Apr 12, 2024

Sprint Backlog

Backlog	Story Points	Assignee
UI Design for sign-in and sign-up DONE	1	@Yeji Kim
Design user database DONE	3	@Mandeep
Implement Sign-in and sign-up feature DONE	8	@Hosang Yoon @Vinith @Mandeep
Authentication PENDING	3	@ Vinith
Design loan application form DONE	2	@Yeji Kim
Implement Credit Analysis Model Prototype DONE NEWLY ADDED	3	@Mandeep @Vinith @Yeji Kim

📚 Completed Tasks

Task	Assignee	Descriptions	Trello	Git Commit
Implement Credit Analysis	@Mandeep @Vinith	• Credit data: k Credit Risk Dataset • Feature Engineering	📋 Implement Credit Analys	⦿ loan_ri sk_analys is_commit

Model Prototype		• Compared 3 models: Logistic Regression, Random Forest Classifier, Support Vector Machine • Evaluation Metric: ROC-AUC ○ Best Model: Random Forest Classifier	is Model Prototype `DONE`	· hyoon1/ LoanRisk Analysis @46b55e 4
UI Design for sign-in and sign-up	@Yeji Kim	• Sketch the basic layout	🖥 UI Design for sign-in and sign-up `DOING`	
Design user database	@Mandeep	• Define the schema for the user table • Choose a database system	🖥 Design user database `DOING`	
Implement sign-in and sign-up features	@Hosang Yoon @Mandeep @Vinith	• Create API endpoints for sign-in and sign-up • Validate user input on the server side • Implement password hashing and comparison using a secure algorithm • Set up session management or token generation for user authentication • Create logic for handling failed login attempts • Test the implementation ○ Account creation 50/50, 100% success. ○ Account login 50/50, 100% success.	🖥 Implement sign-in and sign-up feature S `DOING`	
Design loan application form	@Yeji Kim	• Determine the information required from the user to process a loan	🖥 Design loan application form `TO DO`	

💻 Demo

Credit Analysis Model Prototype: 🔗 loan_risk_analysis

✏️ Discussions & Feedbacks

Stakeholder	Comment
Executive	Collect user requirements and reflect them.
Customer	It would be beneficial to share actual data and incorporate it into the model.
Product Owner	Contact the design team to collaborate on the UI/UX as well.
Developer	It would be advisable to apply techniques to handle imbalanced datasets.

✅ Action items

☐ Receive real credit data from the customer @Mandeep

- ☐ Contact Design Team for UI @Hosang Yoon
- ☐ Consult with a bank representative about the information required for a loan application @Vinith
- ☐ Apply the methods that can improve performance on the imbalanced dataset @Mandeep @Vinith

🔁 Plans

⅄ The next sprint goal is implementing the functionality for users to submit loan applications and for the bank to receive them.

⅄ 1st Release should contain loan application and basic assessment pipeline

⅄ Improve the Credit Analysis Model prototype in parallel using actual data.