

Sprint Planning Meeting Minutes:

Attendees: Monisha Kummari, Gabriel Xirinachs, Chloe Lindsay, Maria Gonzalez Vega, Jabbar Morla

Start time: 1:00pm

End time: 1:30pm

After discussion, the velocity of the team was estimated to be 5 stories for this sprint

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **User Story 6: Feature Engineering**
As a developer, I want to engineer and transform features (scaling, normalization, derived features) so models can learn meaningful patterns from the data.
- **User Story 9: Anomaly Detection Model Implementation**
As a developer, I want to finalize and validate the anomaly detection model so unusual transaction behavior can be reliably detected.
- **User Story 10: Model Comparison & Final Model Selection**
As a team, we want to complete comparisons between supervised and anomaly detection models so we can lock in the final model.
- **User Story 12: Inference Pipeline Creation**
As a developer, I want to finalize the inference pipeline so trained models can be loaded and used consistently for predictions.
- **User Story 13: Backend API Implementation**
As a developer, I want to build a FastAPI or Flask backend so the fraud detection system can be accessed programmatically.
- **User Story 14: Fraud Prediction API Endpoints**
As a developer, I want to expose endpoints that accept transaction data and return fraud predictions, probabilities, and anomaly scores.

The team members indicated their willingness to work on the following user stories.

- Gabriel Xirinachs
 - User Story 10: Coordinate final model comparison and selection
 - User Story 13: Support backend API structure and integration
- Monisha Kummari
 - User Story 10: Finalize model selection rationale and documentation
 - User Story 12: Validate inference pipeline consistency with selected model
- Chloe Lindsay
 - User Story 9: Finalize anomaly detection model and validate results
 - User Story 14: Assist with response formatting and result interpretation
- Maria Gonzalez Vega
 - User Story 9: Validate preprocessing compatibility with anomaly detection

- User Story 12: Confirm inference pipeline stability and reproducibility
- Jabbar Morla
 - User Story 13: Implement backend API framework (FastAPI/Flask)
 - User Story 14: Implement prediction endpoints and basic error handling