

Sprint Retrospective Meeting Minutes

Attendees: Stefany Castro, Alyaa Mossa, Chelsea Ross, Fernando Mata, Ogabek Rakhimov

Start time: 6:12 PM

End time: 7:03 PM

What Went Wrong?

Did we do a good job estimating our team's velocity?

- Yes

Did we do a good job estimating the points (time required) for each user story?

- Yes

Did each team member work as scheduled?

- Yes
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What Went Well

- The team successfully developed and evaluated the machine learning model, creating a strong foundation for future work.
 - Data preprocessing and feature engineering were completed effectively, resulting in a clean and reliable dataset.
 - A clear workflow for model training and evaluation was established, making future development more efficient.
 - Team collaboration was strong, and all tasks were completed on time.
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What Could Be Improved

- The model lacks interpretability, making it difficult to understand how predictions are generated.
- There is limited visibility into which features influence the model's outputs.
- Integration between the backend, model, and frontend is not fully completed.
- Documentation needs improvement to better track progress and support future development.

Action Items for Next Sprint

Process Improvements:

- Begin integration of model, explainability tools, and UI earlier in the sprint.
- Introduce continuous testing when adding new components.
- Improve task distribution based on sprint priorities.
- Maintain consistent and clear documentation.

Product Improvements:

- Implement explainability methods such as SHAP.
- Identify and visualize key features affecting predictions.
- Start developing a user interface to display model results clearly.
- Ensure outputs align with clinical indicators like creatinine and eGFR.

Next Steps

- Integrate the machine learning model with explainability tools and the frontend interface.
- Implement and test SHAP-based explanations alongside model predictions.
- Begin displaying predictions and insights through the frontend dashboard.
- Validate model outputs against clinical expectations.
- Focus on incremental development and continuous testing.
- Improve documentation for better clarity and scalability.

Overall Reflection

- The sprint successfully established a strong technical foundation with a working model and clean dataset.
- The system still needs improvements in interpretability and usability for real-world application.
- The next sprint will focus on making the system more transparent and user-friendly.
- The team is well-positioned to build a more complete and practical solution.
- The next meeting will review integration progress and explainability features.