

OPT Portal Project Week 5 Deliverable

Week 6 (September 16 - September 20, 2024)

Stage 6: Optimization, Bug Fixes, and Documentation

September 16, 2024 (Monday): Performance Optimization

Backend Team:

- Optimize the application's performance by analyzing database queries, API calls, and server-side processing.
- Review and reduce response times by implementing caching for frequently requested data.
- Conduct load testing to ensure the application can handle the anticipated traffic volume and scale.

Frontend Team:

- Optimize the rendering process for React components.
- Implement lazy loading for non-critical components and images to enhance page load times.
- Ensure responsiveness across devices by testing on various screen sizes and fixing any layout issues.

UI/UX Team:

- Review overall application performance and responsiveness.
 - Ensure a seamless user experience with smooth interactions, particularly during document submissions and notifications.
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September 17, 2024 (Tuesday): Bug Fixes and Testing

Backend Team:

- Identify and fix bugs based on user feedback and internal testing.
- Run automated tests on all critical backend components, including user authentication, document submission, and notifications.
- Ensure proper error handling and logging in all API endpoints.

Frontend Team:

- Resolve any UI/UX issues reported during testing, including edge cases that may break the design or functionality.
- Test the application thoroughly on different browsers and devices to ensure cross-browser compatibility.
- Fix bugs related to data rendering, state management, or API integration.

UI/UX Team:

- Collaborate with the frontend and backend teams to ensure all bug fixes align with the intended user experience.
 - Perform usability testing to validate that the latest changes and bug fixes enhance the overall user journey.
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September 18, 2024 (Wednesday): Security Audits and Enhancements

Backend Team:

- Conduct a security audit on all API endpoints to ensure protection against common vulnerabilities (e.g., SQL injection, CSRF, XSS).
- Implement additional security measures like rate limiting and input validation where necessary.
- Update the system for any security patches and review role-based access controls (RBAC) to confirm proper permissions for Admin, Student, OPT Coordinator roles.

Frontend Team:

- Verify that the frontend handles authentication tokens securely, ensuring no sensitive data is exposed in the client-side code.
- Review form validations and data submission processes to prevent potential security threats.
- Test user sessions and ensure tokens expire correctly and cannot be reused after expiration.

UI/UX Team:

- Ensure the UI provides appropriate feedback for security features, such as error messages for unauthorized actions or session expirations.
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September 19, 2024 (Thursday): Final Documentation and User Guides

Backend Team:

- Prepare technical documentation for all backend components, including API endpoints, database schema, and authentication mechanisms.
- Document the process for setting up the application on a new server, including environment variables and deployment steps.

Frontend Team:

- Create documentation for the frontend architecture, including component hierarchy, state management, and API integration.
- Prepare user guides for Admin, Students, and OPT Coordinators, explaining how to navigate the dashboards, submit documents, and manage workflows.

UI/UX Team:

- Finalize design documentation that outlines the user journey, wireframes, and high-fidelity mockups.
 - Ensure the design guidelines are properly documented for future enhancements or changes.
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September 20, 2024 (Friday): Final Review and Team Retrospective

Backend Team:

- Conduct a final review of all backend components to ensure functionality, performance, and security standards are met.
- Host a retrospective meeting to reflect on challenges faced and solutions applied during the development process.

Frontend Team:

- Perform a final review of the frontend codebase and UI to ensure it aligns with the design specifications.
- Discuss key takeaways from the development phase and gather feedback for improvements in future sprints.

UI/UX Team:

- Review the overall user experience and validate the final product against the initial design goals.
- Collect feedback from users (Admin, Students, OPT Coordinators) and identify any areas for future enhancements.