

Winter of Code

Proposal

for the project

“Wallgodds”

Under

Organisation Logo

About Me

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Synopsis

The goal of this project is to enhance the user experience of the current open-source platform by improving the UI responsiveness, creating a more engaging homepage, implementing user authentication, and enhancing the gallery functionality. These improvements will make the platform more interactive, user-friendly, and secure, providing a better experience for users who wish to explore, upload, and download wallpapers.

Benefits to the Community

- **UI Responsiveness:** Fixing alignment and responsiveness issues will ensure that users across different devices (mobile, tablet, desktop) can navigate the platform without issues.

- **Improved Homepage:** By making the homepage more engaging with animations, wallpapers, and clear call-to-action buttons, users will have a better first impression and enhanced experience.
- **Login/Signup Functionality:** Implementing secure login/signup functionality will ensure that users can safely access features like uploading and downloading wallpapers, improving security and user management.
- **Enhanced Gallery:** Adding categories and infinite scrolling will improve the browsing experience for users, making it easier for them to find and explore wallpapers.
- **Customizable Wallpapers:** Allowing users to customize wallpapers by adding text, filters, or overlays directly within the platform will provide a creative and personalized experience.
- **Dynamic Themes:** Introducing light and dark modes or seasonal themes (e.g., winter, spring) will make the platform visually appealing and adaptable to user preferences or time of year.

Project Plan

Tech Stack:

- Frontend: React, CSS, HTML
- Backend: Node.js, Express
- Database: MongoDB Atlas
- Authentication: JWT (JSON Web Tokens), bcrypt

Week 1: Fix UI Issues (20-01-2025)

- Audit the UI for layout alignment and responsiveness issues.
- Fix inconsistencies using CSS media queries and React components.
- Test across various screen sizes and devices to ensure a seamless user experience.

Week 2: Improve Homepage (27-01-2025)

- Design and implement a dynamic homepage with animations (e.g., fade-in, slide-in effects).
- Add call-to-action (CTA) buttons like "Explore Gallery," "Sign Up," and "Upload."
- Integrate engaging wallpapers or themes for visual appeal.
- Focus on intuitive navigation and user engagement.

Week 3: Implement Login/Signup Functionality (03-02-2025)

- Set up MongoDB Atlas for secure user data storage.
- Implement secure user authentication using bcrypt for password hashing and JWT for session management.
- Protect routes like "Upload" and "Download" to ensure only authenticated users can access them.

Week 4: Improve Gallery and Add Customization (10-02-2025)

- Organize the gallery into categories (e.g., nature, abstract, etc.) for better user experience.
- Implement infinite scrolling or pagination to enhance browsing performance.
- Introduce customizable wallpapers using a simple image editor library like `fabric.js` to allow users to add text, filters, or overlays to wallpapers.

Week 5: Dynamic Themes, Testing, and Documentation (17-02-2025)

- Implement light and dark modes, as well as seasonal themes (e.g., winter, spring), that adjust based on user preferences or time of year.
- Conduct comprehensive testing of all features (UI, homepage, login/signup, gallery, customization, themes).
- Debug and resolve any issues identified during testing.
- Write detailed documentation, including:
 - How to set up and run the project locally.
 - Guidelines for contributing to the project.
 - Technical explanations of key features.

Milestones

Milestone	Tentative Date	KPI
Week 1	20-01-2025	Resolve UI alignment and responsiveness issues.
Week 2	27-01-2025	Complete homepage layout with animations and CTA buttons.
Week 3	03-02-2025	Implement login/signup with MongoDB and JWT authentication.
Week 4	10-02-2025	Add categories, infinite scrolling, and wallpaper customization.
Week 5	17-02-2025	Implement dynamic themes, test all features, and complete documentation.

Deliverables

- **UI Fixes:** Improved layout and responsiveness for different devices.
- **Homepage:** A dynamic, engaging homepage with animations and clear CTAs.
- **Login/Signup:** Secure authentication system using MongoDB and JWT.
- **Gallery:** A categorized gallery with infinite scrolling and wallpaper customization.
- **Dynamic Themes:** Light and dark modes, along with seasonal themes.
- **Testing & Documentation:** Fully tested features and detailed documentation for the project.

Acknowledgement

I would like to express my gratitude to the Winter of Code program and the mentors for providing this opportunity to contribute to the open-source community. I am excited to collaborate and contribute to improving this project.