Software Requirements Specification (SRS) Document

Team- 27
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Brief problem statement

CometLabs is a HR platform where that creates in-browser IDEs that launch within seconds so that the developers can easily create and deploy Full-Stack Applications using any framework immediately and get recruited according to their work.

Our project requires the improvement of the website's frontend section by identifying and remedying glitches in web applications, while simultaneously choosing a lighter framework to reduce loading time, followed by attention to the backend. Currently, the website employs Material UI, which is very slow, hence we intend to expedite its performance by utilizing the exceedingly nimble Tailwind CSS/Material Tailwind framework. Our primary goal in the second round is to transform the sign-in and sign-up webpages to conform to Tailwind CSS.

Users profile

Companies (recruiters): The website allows HR staff to view the profiles of different developers and evaluate their skills based on their participation in hackathons and the quality of their project codes. Recruiters can also interview shortlisted candidates and make informed hiring decisions directly from the website. The website is designed to be user-friendly and accessible to recruiters regardless of their familiarity with the software and technology involved.

Developers (students, independent contractors, and people looking for full-time employment): For developers, the website provides a platform to build and deploy full-stack applications using any framework and apply for jobs that are being advertised on the website. The platform is easily accessible from the main webpage, and developers with experience in software and technology can leverage this to their advantage.

Project Modules

Front-end Design: This module encompasses the design aspects of the product, including the use of Figma. The design of the user interface, layout, and animation are included in this module.

User Interface: This module handles the implementation of the front-end design into the product, using Framer Motion and CSS Tailwind. It deals with the creation and integration of user-facing elements, such as buttons, forms, and navigation menus.

These modules provide a high-level view of the different aspects of the project and help in organizing the requirements. By breaking down the project into smaller modules, it becomes easier to manage and prioritize tasks, as well as delegate responsibilities among team members.

Feature Requirements (Described Using Use Cases)

Module 1: Front-end design module

Submodules:

i) Animation

ii) Layout

FEATURE REQUIREMENTS:

i) Animation:

- Smooth transitions between pages: The transition between different pages on the dashboard should be smooth and visually appealing.

- Lightweight animations: when a page is loading, a heavy framework causes it to be slow and thus renders a skeleton before the full-fledged page, using a lightweight framework handles that as it is significantly faster and easier to load.

User Story:

- "As a user, I want the transition between different pages on the dashboard to be smooth and visually appealing, so that I can navigate the dashboard more easily and enjoyably."
- "As a user, I want the animations to be lightweight, so that the dashboard loads quickly and I can access the information I need without waiting for the animations to complete."

ii) *Layout:*

- Responsive design: The layout of the dashboard should be responsive and adjust to different screen sizes and resolutions.

User Story:

- "As a mobile user, I want the dashboard layout to be responsive and adjust to my phone's screen size, so that I can access the dashboard easily on my mobile device and view the content clearly."
- "As a user with a high-resolution monitor, I want the dashboard layout to be responsive and adjust to my screen resolution, so that I can view the content in high quality and without any distortion."

- "As a user who uses multiple devices, I want the dashboard layout to be responsive and adjust to different screen sizes and resolutions, so that I can access the dashboard from any device without any inconvenience."

Module 2 : User Interface Module

Sub modules:

i) Interactive components

ii) User Testing

FEATURE REQUIREMENTS:

i) Interactive Components:

- Optimization of forms: there should be a quick rendering of the form and to this end, figure out an efficient way of using React components.

- Navigation Menus: Similarly, navigating to the pages provided in the menu should be effortless. To facilitate this, explore more javascript libraries.

User Story:

- For the Optimization of Forms feature requirement:
    i. "As a user filling out forms, I want the forms to render quickly, so that I can complete them efficiently without waiting for the page to load."
    ii. "As a website administrator, I want the forms to be optimized using React components, so that the website can handle large numbers of form submissions without slowing down."
- For the Navigation Menus feature requirement:
    i. "As a user, I want the navigation menus to be easy to use and navigate, so that I can find the content I need quickly and without hassle."
    ii. "As a website administrator, I want to explore more javascript libraries for navigation menus, so that I can provide a seamless and user-friendly experience for users navigating the website."

ii) User Testing

• Feedback analysis: Over the course of the development phase, we will debug the codebase according to the issues encountered by the users.

User Story:

- "As a website administrator, I want to analyze user feedback and debug the codebase according to the issues encountered by the users, so that I can improve the user experience and ensure that the website is functioning optimally."

Use Case Diagram