Functional Requirement Document for ProfileStats

Website: Pentagon ProfileStats

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1. Introduction

1.1 Purpose

The purpose of this web application is to enable users (particularly developers) to input key aspects of their technical journey — including skills, experience, and number of projects — and receive a categorized, gamified profile summary that visualizes their development path.

1.2 Intended Audience

- Project Owner / Developer
- Academic Supervisors / Faculty Evaluators
- Potential Users / Testers
- Peer Reviewers / Classmates

2. Functional Requirements

- When the use types the URL "https://kashishbarnwal2611.github.io/PentagonProfileStats/" it should navigate to the Home page of Pentagon ProfileStats.

2.1 User Input Interface

- The system shall provide input fields for:
    - Name (text)
    - Years of Experience (dropdown)
    - Skills (auto-suggest with tagging)
    - Number of websites developed (number)
    - Number of apps created (number)

Figure 2.1

2.2 Skill Autocomplete

- The system shall suggest skills from a predefined list while typing.

- The system shall allow users to select multiple skills and display them as tags.

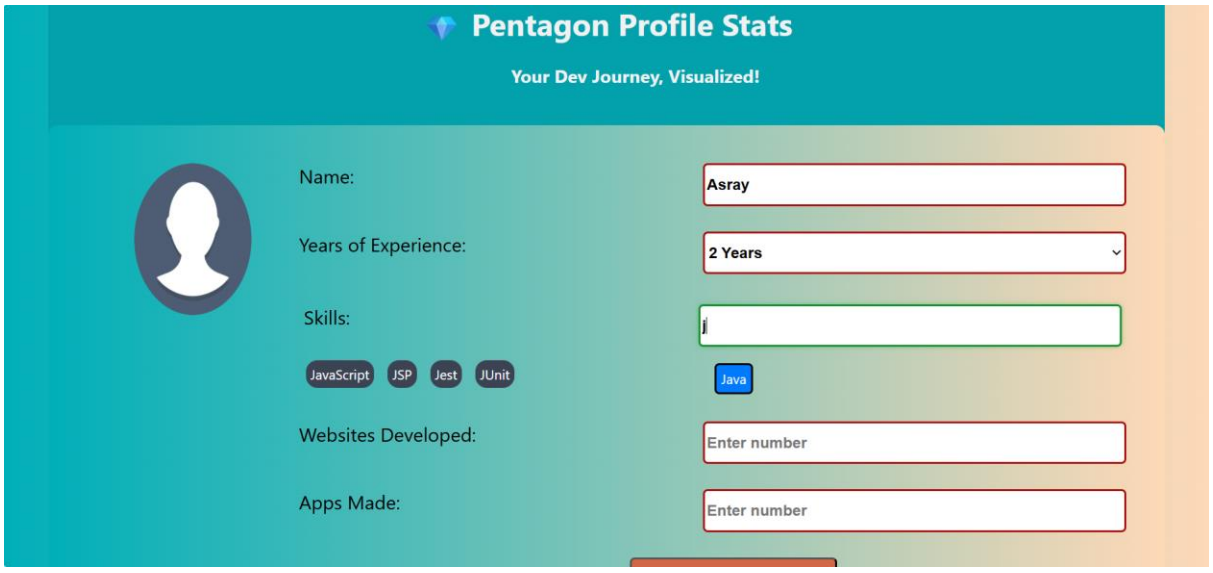

Figure 2.2

2.3 Profile Analysis

- The system shall classify users into one of the following categories based on skills and project counts:
    - Frontend
    - Backend
    - Full Stack
    - Tester
    - Newbie (fallback)

2.4 Experience Level Evaluation

- The system shall evaluate a user’s experience level based on:
    - Number of years
    - Websites and apps created
- Levels include:
    - Not a programmer!
    - Learner
    - Beginner
    - Fresher
    - Intermediate
    - Senior

2.5 Result Display

- The system shall display the user's profile as a result card with:
    - User's name
    - Category image
    - Cup icon based on level
    - Stars representing experience level
    - Motivational caption

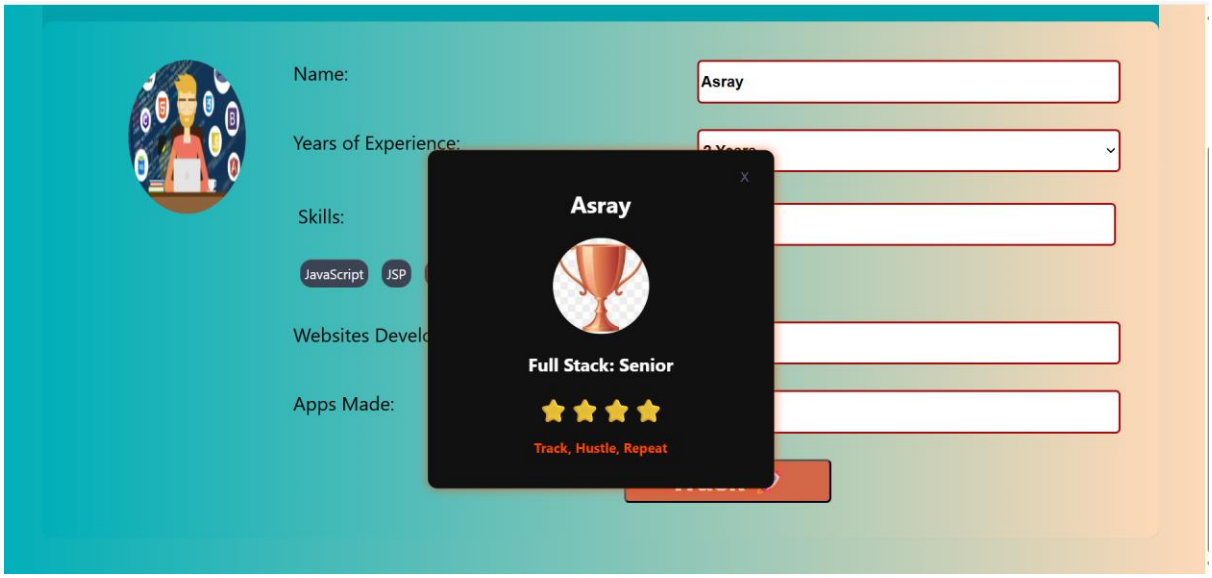

Figure 2.3

2.6 User Feedback and Validation

- The system shall alert the user if required fields (like name) are not provided.
- The system shall validate inputs like numbers for projects and selection for experience.

3. Responsiveness

- User can input their profile data and get categorized.
- User can select from a dynamic list of skills with tag display.

- A result card is shown with appropriate image, stars, and category.
- Input validations are handled.

4. Conclusion

The application achieves interactive classification of a user’s profile using only client-side HTML, CSS and JavaScript. It provides a visually appealing and responsive experience, letting users get instant feedback based on their development history and skills. It fulfils a visual and interactive need for self-assessment in a developer’s learning path.