

**PROJECT PLANNING & BRIEF:**  
**CODECRUSH**

**01. Target Audience:**

- Coders and programmers seeking daily challenges and consolidated knowledge.
- Developers/Engineers preparing for technical interviews to enhance their knowledge and confidence.
- Bootcamp Graduates
- Computer Science Graduates
- Junior and Senior Software Developers/Engineers
- Adult Learners
- General Career Changers Entering the Tech Industry
- Tech Enthusiasts

**02. Content and Curriculum:**

- Curriculum begins with Python programming.
- Offers 3 daily questions with a mix of technical and code-related challenges.

**03. Interactive Learning:**

- Correct answers trigger pop-up notifications with motivational messages, explanations, points, and progression.
- Incorrect answers display pop-ups with explanations for improvement.

**04. User Experience and User Interface (UI/UX):**

- Emphasis on a clean and intuitive interface for smooth user experience.
- Integration of sound effects to enhance user engagement.

**05. Gamification and Motivation:**

- Implementation of daily streak mechanism to encourage consistent participation.
- Point system to reward users for their progress.
- Progress tracking to monitor individual improvement.
- Solution hints to assist users when needed.

**06. Tech Stack:**

- Frontend:
  - JavaScript
  - Next.js
  - Tailwind CSS
  - Daisy UI
- Backend:
  - Java
  - Spring
- Database:
  - PostgreSQL (Relational Database Management System).
- Authentication:
  - Firebase

**07. Minimum Viable Product - User Stories (MVP):**

- As a recent CodeClan graduate, I want to refresh and test my technical knowledge daily.
- As a recent graduate and interviewee, I want to assess my python skills and be well-prepared for interviews.
- As a software developer, I aim to assess my python knowledge regularly and track my progress through a leaderboard.

**08. Minimum Viable Product (MVP):**

- Provides a user-friendly interface for daily interactive quizzes focusing on code learning.
- Offers the ability to earn rewards such as winning streaks, star power, points, and medals.

**09. Extensions (EXT):**

- Intermediate and expert levels introduced for more advanced users.
- Integration of authorisation via Google API for streamlined login.
- User profiles with scores, names, and avatars visible to the user.
- Leaderboard feature allowing users to compare their progress.