**Objective**:  
Conduct usability tests with 3 users to assess the user experience and identify areas for improvement in the Code Helper app. The goal is to gather feedback on its effectiveness for complete beginners learning to code and to ensure the app is easy to use and helpful.

### **Test Participants:**

1. **Participant 1**: Complete beginner with no prior coding experience. Not a STEM major.
2. **Participant 2**: Complete beginner with no prior coding experience. STEM major.
3. **Participant 3**: Some coding experience in another language (C++).

### **Testing Tasks:**

1. Signing up
2. Logging into the app
3. Selecting a course
4. Submitting code
5. Logging out

### **Findings and Observations:**

#### **Participant 1 (Complete Beginner, Not a STEM Major):**

* **Sign-up Process**:
  + **Observations**: The user found the sign-up process easy to complete.
  + **Feedback**:
* **Logging in**:
  + **Observations**: The user had no difficulty logging into an account.
  + **Feedback**:
* **Course Selection**:
  + **Observations**: The user got the gist of the course description.
  + **Feedback**: Suggested adding more descriptions for the course page.
* **Submitting Code**:
  + **Observations**: The user was unsure how to submit the code, as the "Submit" button was not clearly marked.
  + **Feedback**: Suggested adding a clearer "Submit" button or visual indicator showing the code is ready for submission.
* **Logging Out**:
  + **Observations**: Logging out was easy for the user.
  + **Feedback**:

#### **Participant 2 (Complete Beginner, STEM Major):**

* **Sign-up Process**:
  + **Observations**: The user had no issues with signing up.
  + **Feedback**: Suggested adding more user profile options (e.g., uploading a profile picture or linking social media).
* **Logging in**:
  + **Observations**: There was no trouble logging into the newly created profile.
  + **Feedback**:
* **Course Selection**:
  + **Observations**: The user found the course selection process straightforward but wanted more information before choosing a course.
  + **Feedback**: Suggested adding more course descriptions to provide clarity on course content and its relevance to the learner's progression.
* **Submitting Code**:
  + **Observations**: Submitting code was easy but there was a slight delay.
  + **Feedback**: Suggested adding a "Success" message or visual indicator to confirm the code submission.
* **Logging Out**:
  + **Observations**: The logout process was clear.
  + **Feedback**: Suggested adding a prompt to save work before logging out.

#### **Participant 3 (Some Coding Experience in Another Language):**

* **Sign-up Process**:
  + **Observations**: Signing up was quick, but the user expected more advanced features, such as linking or google accounts.
  + **Feedback**: Suggested adding profile customization and integration with external platforms.
* **Logging in**:
  + **Observations**: The login process was straightforward, but the design felt outdated.
  + **Feedback**: Recommended improving the design of the login page for a more modern, user-friendly look.
* **Course Selection**:
  + **Observations**: The user liked the course catalog but wanted a better course layout.
  + **Feedback**: Suggested adding filters for course topics to improve course navigation.
* **Submitting Code**:
  + **Observations**: The user was able to submit code without any problems.
  + **Feedback**:
* **Logging Out**:
  + **Observations**: The user had no trouble logging out.
  + **Feedback**:

### **Survey Questions:**

1. **On a scale of 1-10, how did you feel about your confidence navigating the login page?**

**Overall score: 9**

1. **On a scale of 1-10, how did you feel about your confidence navigating the homepage?**

**Overall score: 7.6**

1. **On a scale of 1-10, how did you feel about your confidence navigating the course selection page?**

**Overall score: 7.3**

1. **On a scale of 1-10, how did you feel about your confidence in submitting code?**

**Overall score: 7.6**

1. **On a scale of 1-10, how did you feel about your confidence logging out of the profile?**

**Overall score: 8.6**

**What did you like about Code Helper?**

* **User-Friendly Interface: The platform has a clean, simple design that makes it easy for beginners to navigate without feeling overwhelmed.**
* **Clear Course Organization: The courses are organized well, and the straightforward structure helps users understand what to expect.**
* **Code Submission: The ability to submit code directly within the platform is convenient and integrates well with the learning experience.**

**What did you find hard to use about Code Helper?**

* **Course Descriptions: Some course descriptions were too brief and didn’t provide enough detail about the content or what skills would be learned. It was sometimes difficult to decide which course to pick without more context.**
* **Code Submission Button: The "Submit" button wasn’t clearly labeled, and there was no clear visual indicator showing when the code was ready for submission. This caused some confusion.**
* **Design: The login page design felt a bit outdated and could benefit from a more modern look to improve first impressions and ease of use.**

**What features should be added to Code Helper to ensure it effectively helps users achieve the ultimate goal of the app—successfully learning to code and improving programming skills?**

* **More Detailed Course Descriptions: Adding more comprehensive course descriptions, including learning outcomes and how each course contributes to overall programming skills, would help users make more informed decisions about what to learn next.**
* **Profile Customization: Adding options for users to personalize their profile (e.g., uploading a profile picture or linking with social media) would make the platform feel more engaging.**
* **Course Filters and Search: Adding filters to search for courses by difficulty, topic, or language would help users quickly find courses that suit their current skill level.**

### **Consolidated Feedback Summary:**

1. **Sign-up Process**:
   * The sign-up process is generally straightforward, but adding options for profile customization (e.g., linking social media or uploading a profile picture) would enhance user engagement.
2. **Logging In**:
   * No significant issues with logging in, but improving the design of the login page could make the experience more visually appealing and user-friendly.
3. **Course Selection**:
   * Course descriptions need to be more detailed. Providing clarity on what the course covers and how it fits into the learning journey will help users make better-informed decisions. Additionally, adding filters for course selection would help improve navigation.
4. **Submitting Code**:
   * A clearer "Submit" button or visual cues indicating code readiness will help users feel more confident when submitting their work. Also, adding feedback like a "Success" message would reassure users that their code has been successfully submitted.
5. **Logging Out**:
   * While the logout process is easy to use, adding a "Save Progress" prompt before logging out would prevent users from losing their work unintentionally.

### **Planned Revisions:**

1. **User Interface**:
   * Improve the design of the login page for a more modern look.
   * Add clearer labels and visual indicators for key actions, such as code submission.
2. **Course Catalog**:
   * Enhance course descriptions to include more details on what each course covers, the skills learned, and how it fits into a broader learning progression.
   * Introduce filters for course topics, difficulty levels, and languages to improve navigation.
3. **User Engagement**:
   * Add user profile customization options (e.g., uploading a profile picture or linking external accounts).
4. **Code Submission**:
   * Introduce a confirmation message or visual feedback to indicate that the code has been successfully submitted.
5. **Logout Process**:
   * Add a prompt to save progress before logging out to prevent users from accidentally losing their work.

**Score**: 8/10.  
Good functionality, but usability improvements in feedback mechanisms, course navigation, and user interface would enhance the overall experience for new users.