**UE21CS341A - Software Engineering**

**Test Plan Documentation**

**Template of a Test case:**

| Test Case ID | Name of Module | Test Case  Description | Pre-conditions | Test Steps | Test Data | Expected Results | Actual Results | Test Result |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UT\_01 | Pair Earbuds | Verify successful pairing of earbuds with the mobile | Mobile app installed, bluetooth enabled | 1.Launch the app. 2.Navigate to the "Pair Earbuds" section.  3. Turn on the earbuds. 4. Tap on the "Pair" button | Valid bluetooth enabled earbuds | Earbuds should be successfully paired | The earphoneswere successfully connected | Pass |
| UT-02 | Select source and target language | Verify the selection of source and target language | Mobile app installed | 1.Launch the app. 2. Go to the "Language Settings" section.  3. Select a source and a target language. 4. Save the language preferences. | Valid language selections | Language preferences should be saved automatically | The selected source and  target language is displayed.  Language preferences are saved automatically. | Pass |
| UT\_03 | Real-time translation | Verify real time translation during a conversation | Earbuds paired, language preferences set | 1. Initiate a conversation in the selected source language. 2. Verify that the app provides real-time translation.  3. Confirm translated speech in the earbuds. | Valid conversation in the selected language | Real time translation should be accurate and audible in the earbuds. | The conversation in the selected source language was initiated successfully.  Real-time translation provided by the app was accurate.  The translated speech was audible in the earbuds. | Pass |
| UT\_04 | User profiles | Verify the creation and management of user profiles | Mobile app installed, user logged in | 1. Navigate to the "User Profiles" section.  2. Create a new user profile with valid information.  3. Save the profile. | Valid user profile information | The user profile should be successfully created and saved | The User Profiles section was not yet accessible. | Fail |
| UT\_05 | Feedback and reporting | Verify the submission of feedback and reporting | Mobile app installed , real time translation in progress | 1. During a conversation, provide feedback on the translation quality. 2. Report an issue encountered during translation. | User feedback and reported issues | Feedback and issue reports should be submitted successfully. | Feedback option wasnt added yet to the project. | Fail |
| IT\_02 | Privacy controls | Verify the configurations of privacy settings | User logged in, mobile app installed | 1. Go to the "Privacy Controls" section. 2. Configure privacy settings, such as data sharing preferences. | User defined privacy settings | Privacy settings should be configured successfully | The "Privacy Controls" section is not yet accessible. | Fail |
| ST\_01 | Offline mode | Verify the functionality of the offline mode | Mobile app installed, user logged in, earbuds paired | 1. Disable internet connectivity on the mobile device. 2. Initiate a conversation in Offline Mode. | Offline mode enabled | The app should provide basic translation functionality without an internet connection for commonly used phrases | Feature yet to be implemented | Fail |
| ST\_02 | Overall system integration | Verify the integration of all system modules | Mobile app installed, user logged in , earbuds paired | Perform tasks across various modules, such as pairing earbuds and initiating conversations. | Varied data from different modules | All modules should seamlessly integrate and functionalities should work cohesively. | The modules seamlessly integrated with each other.  Functionalities across different modules worked cohesively.  Data from various modules interacted correctly. | Pass |
| UT\_06 | User assistance | Verify the accessibility and effectiveness of user assistance | Mobile app installed | 1. Access the user assistance section within the app. 2. Explore and follow user assistance features for using a specific functionality. | User assistance feature selection | The user assistance feature should provide clear guidance and the user should successfully follow the instructions | Feature yet to be implemented | Fail |
| IT\_03 | Connectivity and cloud integration | Verify seamless integration with cloud-based services. | Mobile app installed, earbuds paired, internet connectivity available. | 1. Initiate a conversation with cloud-based language models. | Internet connectivity and cloud integration. | The app should seamlessly integrate with cloud-based services for language models and updates. | The app seamlessly integrated with cloud-based services for language models.  Language models and updates were successfully fetched from the cloud. | Pass |
| UT\_08 | Localization | Verify support for multiple languages and regions | Mobile app installed | 1. Change the app's language settings to a different language. 2. Verify that the app and earbuds support the selected language. | Language change request | The app and earbuds should display content in the selected language, demonstrating localization support. | The app's language settings were successfully changed to the selected language.  Both the app and earbuds displayed content in the selected language. | Pass |