# The Revision History

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| --- | --- | --- | --- |
| **Date** | **Description** | **Author** | **Comments** |
| <date> | <Version 1> | <Your Name> | <First Revision> |
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# Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

|  |  |  |  |
| --- | --- | --- | --- |
| **Signature** | **Printed Name** | **Title** | **Date** |
|  | <Your Name> | Lead Software Eng. |  |
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|  |  |  |  |

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Introduction Section For Bryan

3. **Specific Requirements**

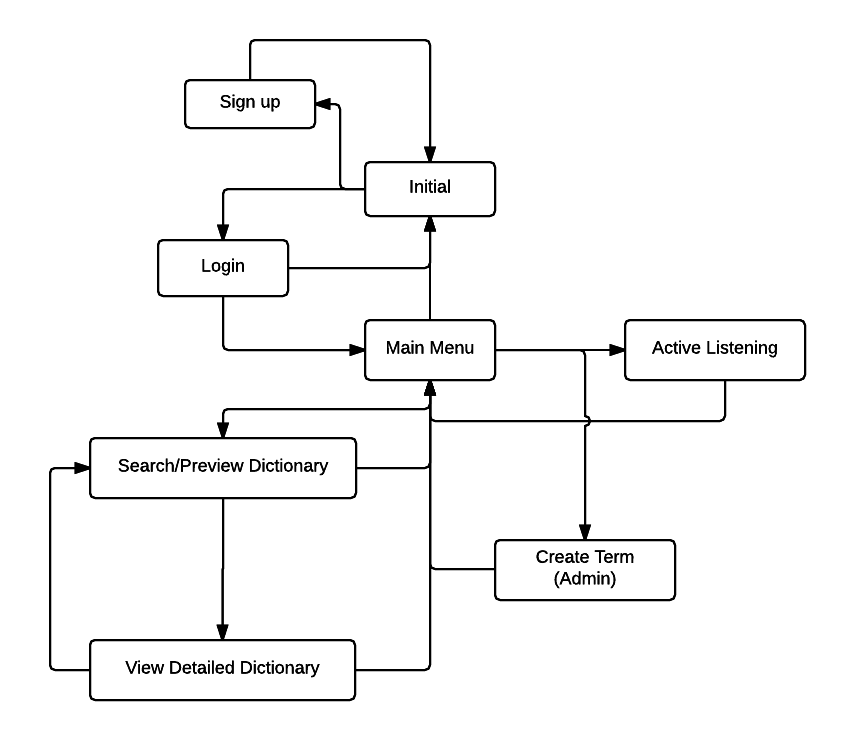
This section will describe all specific requirements including: External Interface Requirements, Functional Requirements, Non-Functional Requirements, Design Constraints, Logical Database Requirements, and Other Requirements.

3.1 EXTERNAL INTERFACE REQUIREMENTS

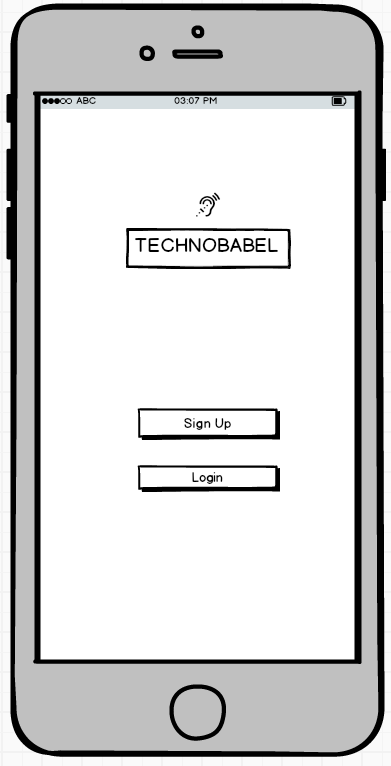
This section provides visual and detailed descriptions of all user interfaces from the system.

3.11 *User Interfaces*

* The back button shall allow users to back track activities. The order of activities is as follows:



3.111 Initial Activity



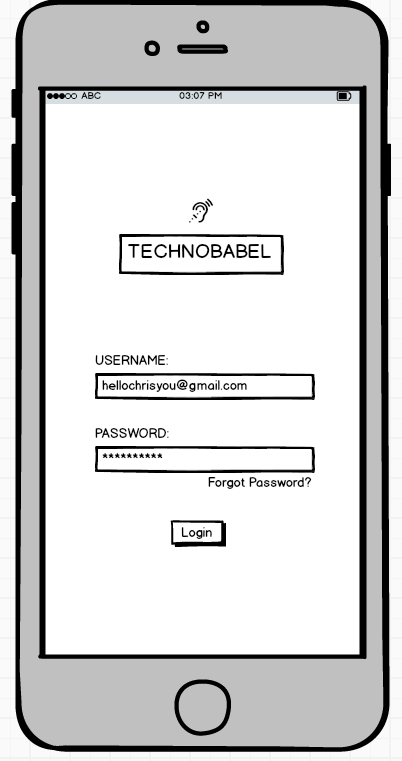
* Allows users or administrators to sign up for a new account or login to a preexisting account

3.112 Sign Up Activity



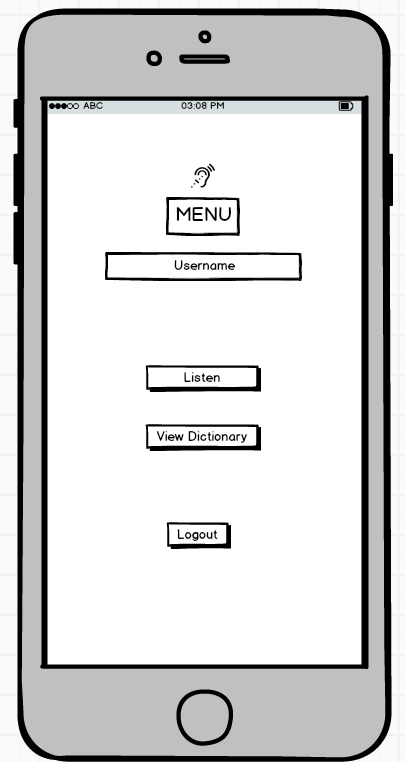
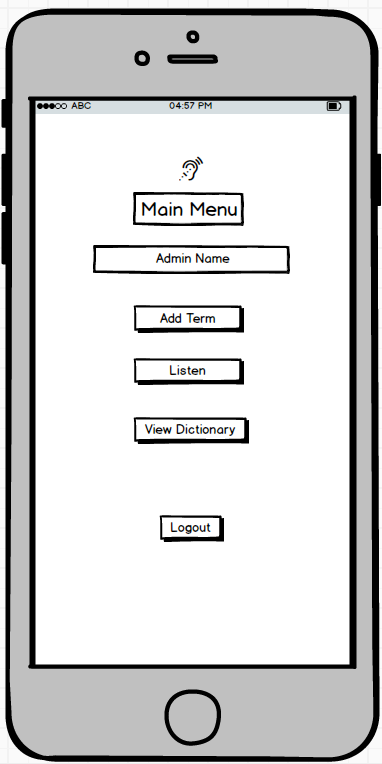
* Sign up activity for first-time users
* Prompts user to enter profile information to be stored on the server
* System shall notify user if information is invalid

3.113 Login Activity



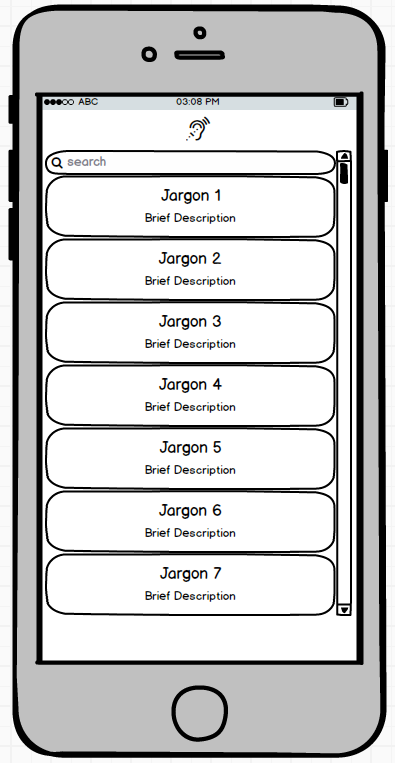
* User will be prompted to put in login information
* Notifies if log information is valid
* User will have an option to retrieve password via email

3.114 Main Menu Activity

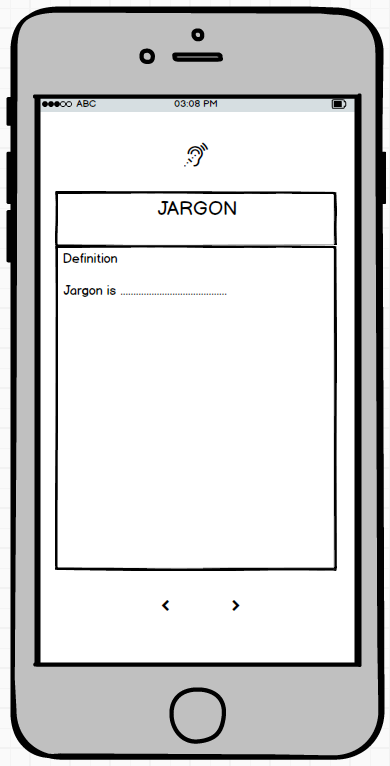
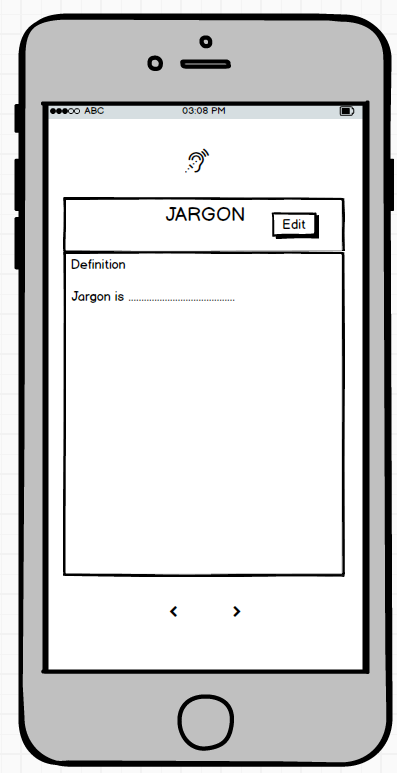
* Display options to visit Listen Activity, Search/Preview Dictionary Activity, Active Listening Activity
* Offer administrators an option to add terminology
* Users will have option to logout and returned to the Initial Activity

3.115 Search/Preview Dictionary Activity



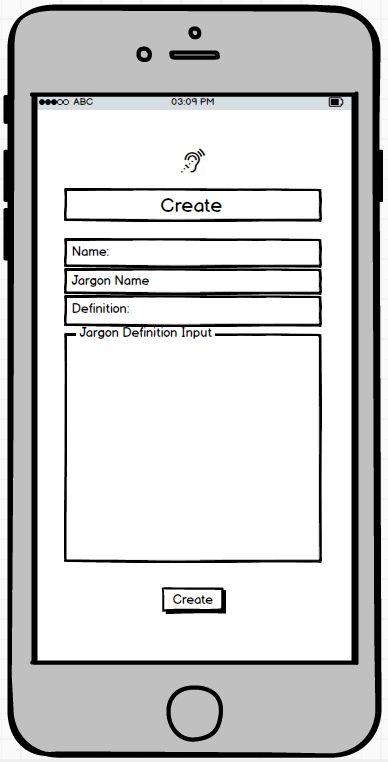
* Offer users a search bar to find and view terminology in database
* Shows a scrollable list that displays available terms and preview of the definition
* Selecting a term will direct user to View Detailed Dictionary Activity

3.116 View Detailed Dictionary Activity

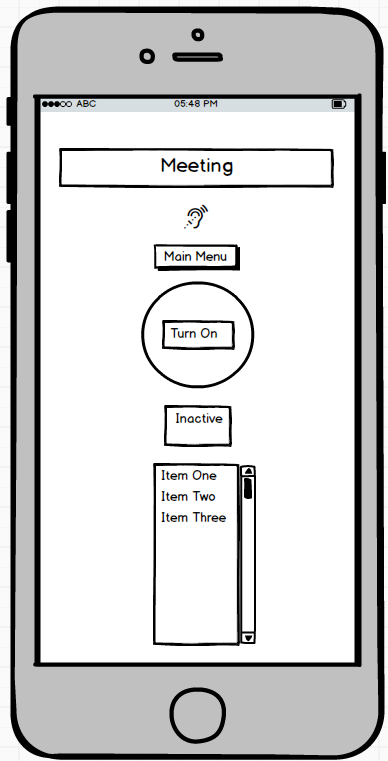
* Shows detailed information about selected term.
* Administrators will have the option to edit definitions
* Users can cycle terms forward and backwards alphabetically

3.118 Create Terminology Activity



* Only administrators will have the option to create terminology
* Administrator is prompted to enter terminology name and definition

3.117 Active Listening Activity



* Allows users toggle voice recorder on/off to actively listen and identify terminology in database
* Shows users status of voice recorder
* Recognizes and displays terms in a scrollable list
* Offers users to option to visit main menu

3.12 *Hardware Interfaces*

Technobabel is intended as a mobile application for Android and IOS. The hardware connection to the database is managed by the underlying operating systems on the mobile phone.

Technobabel is being developed for a maximum API version of 19 and supports voice recognition.

3.13 *Software Interfaces*

The application is to be developed under the Xamarin platform using BLANK DEVELOPMENT KIT for IOS and the Android SDK (software development kit) tools for Android.

Incoming and outgoing data consists of account information, terminology data, and audio data. The Xamarin platform handles recording audio information and then transfers that information to the Microsoft Bot framework which then analyzes and hosts the database.

3.14 *Communications Interfaces*

Technobabel application will interact between the front-end framework(Xamarin) and the back-end server (asp.net) by connecting and querying the database on Microsoft Azure (cloud-based platform).

3.2 FUNCTIONAL REQUIREMENTS

1. The Technobabel application shall allow users to create an account

*Description:* Users create their user account and provide their required information. The application saves the data into the system database.

1. The Technobabel application shall allow users to sign in with an existing account

*Description:* Users log into system with existing accounts with approved credentials

1. The Technobabel application shall allow users to retrieve forgotten passwords

*Description:* Users receive email notification of account password once system is prompted

1. The Technobabel application shall approve log-in information and grant access to user

*Description: A*pplication verifies credential information from the database and grant approval

1. The Technobabel application shall only allow administrators to create/edit terminology

*Description:* Administrators utilize application to create/edit terminology from/to the database

1. The Technobabel application shall allow users to view terminology

*Description:* Users may view available terminology from the database

1. The Technobabel application shall allow users to logout of their accounts

*Description:* Users may log out of their accounts at the main menu

1. The Technobabel application shall allow users to search and preview terminology from the database

*Description:* Users can search for available terminology from the database and system displays results with a preview description

1. The Technobabel application shall allow users to toggle voice recorder on/off

*Description:* Users have the option to turn voice recorder on or off when desired

1. The Technobabel application shall recognize terminology via voice recorder

*Description:* Voice recorder will recognize existing terminology from database when activated

1. The Technobabel application shall populate definitions from recognized terminology

*Description:* Application displays to the user the selected terminology definition from the database

1. The Technobabel application shall generate notifications for invalid login or sign up information

*Description:* Application will recognize invalid login or sign up information and prompt user to enter valid information

1. The Technobabel application shall display status of voice recorder

*Description:* Application will recognize and display the status of the voice recorder

3.3 NON-FUNCTIONAL REQUIREMENTS

3.4 DESIGN CONSTRAINTS

3.5 LOGICAL DATABASE REQUIREMENTS

3.6 OTHER REQUIREMENTS