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| **1** | **Introduction** |
| **1.1** | **Purpose**  The purpose of this SRS document is to present a detailed description of the KidZee Application. The document will explain and describe the purpose and features of the application, the nonfunctional and functional requirements, what the application will do, and list the constraints under which the application must operate. |
| **1.2** | **Scope**  The scope of this project is to develop an end to end to application that can work on iOS devices. The application will have a backend and a frontend implementing the features and requirements of the applications in accordance to the given constraints. |
| **1.3** | **Definitions, Acronyms and Abbreviations**  Below is a list of definitions, acronyms, and abbreviations that will be used in this document.   |  |  | | --- | --- | | TERM | DEFINITION | | User | The intended user, who downloads the application and uses it. Mostly kids but can also be parents or teachers helping kids to learn. | | Database | A Firebase database to store data related to the progress, frequency of use and other information related to kids relevant to the app. | | Software requirements specification | A document that describes the the functions of a proposed system along with constraints that the system should operate under. | | Firebase portal | Online Firebase database portal which shows what data is being stored and how the data is being stored. | | KidZee | iOS Application that caters towards helping kids learn the fundamentals of maths using some academic principles necessary for kids to learn the fundamentals of maths. | |
| **1.4** | **Overview**  The following parts of this document describe the requirements of the project. The second chapter describe the use cases and list use cases diagram along with its activity diagrams. The last chapter highlights the main requirements of the project. |
| **2** | **Overall Description**  This application is targeted to help kids learn fundamentals of Mathematics. For example, Counting, Addition Subtraction and also Multiplication Division. The app will be designed keeping in mind the cognition of kids to interact with numbers and play around with them. |
| **2.1** | |  |  |  | | --- | --- | --- | | **Actor name** | **Description** | **Participates in** | | User (A1) | Intended user who is most likely a kid in grade 1, 2, 3 or 4 | UC 1.1 Authenticate User  UC 1.2 Mobile verification  UC 2.1 Counting Module  UC 2.2 Add/Subtract Module  UC 2.3 Multiply/Divide Module  UC 3.1 Answer a question/Complete task  UC 3.2 Skip to next question  UC 3.3 Use Audio help with question  UC 3.4 Use Verbal help with question  UC 5.1 Answer the challenge question  UC 5.2 Take verbal or audio help | | Teacher or Parent (A2) | A teacher or parent monitoring the kid using the app | UC 4.1 Last used  UC 4.2 How long  UC 4.3 Past 3 days |   **Use Case Model Survey** |
| **2.2** | **Introduction**  The application has 2 main components: iOS app and Firebase Console. App is used by the kids to learn Math fundamentals. Firebase Console is used to monitor the iOS app data being stored at the backend and to push new data into app from the backend. |
| **2.3** | **Use case Model Hierarchy**   |  |  |  |  | | --- | --- | --- | --- | | **Screen%20Shot%202018-07-04%20at%2010.34.28%20PM.png**  **User** |  |  | **Screen%20Shot%202018-07-04%20at%2010.34.28%20PM.png**  **Teacher/Parent** |   **User Account**  This section deals with the user account creation at the backend. Each user’s Unique identity will be saved at the backend in the form of his or her mobile number  **Module Selection**  This section deals with selection of module a kid wants to learn for example, Counting, Add/Subtract etc. This will also give an option to select the difficulty level of the module.  **Test/Practice**  This section will include the actual exercise that will help kids learn the Mathematic fundamentals. The exercise can be in the form of a test with options or other visual interaction leading to cognitive understanding of how the process of counting, addition or subtraction takes place.  **Progress**  A progress screen that can give an insight into how often a kid is using the app to learn, the last time app was used and for how long.  **Weekly Challenge**  Every week there can be a final test given as a challenge to the kid. |
| **2.4**  *2.4.1* | **Diagrams of Use-Case Model**  *User Account*  *../Screen%20Shot%202018-07-06%20at%2012.52.02%20PM.png*  *UC 1.1 Authenticate User*  MAIN SUCCESS SCENARIO   1. User opens the app 2. Application retrieves the user token 3. If token is found, It’s a returning user. Hence authenticated.   EXTENSIONS   1. User token is not found 2. User is either new or was logged out, hence Mobile verification   **UC 1.1 Authenticate User**  1. User Opens the app  Token found  Token not found  1. Mobile Verification step  (UC 1.2)  3. User Validated  2. Application tries to fetch User Token |
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