Logo

Description automatically generated**College of Computing and Informatics**

**Computer Science Department**

**University of Sharjah**

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**Face recognition-based attendance system for primary school and kindergarten kids**

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| Task | Status | Progress% | notes | name |
| Frontend Interface | Completed | 100% | Includes splash, login\signup pages only | Reema Alharbi |
| Splash page | Completed | 100% | - | Reema Alharbi |
| Login\Signup Page | Completed | 100% | - | Reema Alharbi |
| Credits Page | In Progress | 50% | - | Reema Alharbi |

User Interface

User Interface Design for any application should be very simple. We should have only a few clicks or navigation among the features when using the application to avoid hassle. In this application, there are two main screens, the Login and Home screens. The login page is the first page which appears when the user uses the application. In that page, if he is a new user, he can sign up or if he is an existing user, he can login with the credentials.

If the user wants to use the RKM application, they must download the application from the play store, install and register it by providing login information. Once, they registers the registered information is stored on the server and can be validated, checking the valid credentials for the next time they login with the application.

The next screen is the homepage where the users can select features and use the app. The homepage is going to be developed in the next progress of the project.

Languages used:

* React Native was mainly used for creating the frontend of the project, the language is flexible enough to maintain code complexity, test, implementation, integration and support.
* Javascript
* Node.js

IDE’s, Tools and Technologies:

* Android Studio: It consists of all Android SDK tools to design, develop, maintain, test, debug and publish our app.
* Android Software Development Kit (SDK)
* SDK Manager: It is one of the main tools to maintain the updates of all the installed components required to run the project. It also notifies us when the project is not compatible with device or any other compatibility issues and to download any component that is required.
* Firebase will be used to connect to the database and host the application.
* Visual studio code
* Java SE Development Kit (JDK)
* Expo Cli quickstart
* NPM Package manager
* Node.js 12
* Android Virtual Devices (AVDs)
* Metro bundler

Screenshots of the mobile application

Diagram

Description automatically generatedA screenshot of a cell phone

Description automatically generated with medium confidenceA person jumping in the air

Description automatically generated with medium confidenceThese are the splash pages that will appear only the first time a user opens the application.

Graphical user interface

Description automatically generatedGraphical user interface

Description automatically generatedThe user then will be directed to the Start screen and will be asked to choose the level of access, after that they will either login or signup.

Graphical user interface

Description automatically generated with medium confidenceChart

Description automatically generatedSignup and Login pages.

App.js and registration page code.

Text

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Text

Description automatically generatedText

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After the user download the RKM and create a username and password, the user can start tracking his kid using the app, and through it he can view a pie chart to see the average of the kid attending the school.

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| Task | Status | Progress% | notes | name |
| Register page | In progress | 50% | - | Mohammed Rammal |
| Charts page | In progress | 50% | - | Mohammed Rammal |

Data base

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task | Status | Progress% | notes | name |
| Register page database | Completed | 100% | - | Khuloud  Khalid |
| Login\Sign up page database | Completed | 100% | - | Khuloud  Khalid |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Database forget password | Completed | 100% | - | Khuloud  Khalid |

A database is a logically organized collection of structured data stored electronically in a computer system. A database management system is usually in charge of a database. Data can then be accessed, managed, updated, controlled, and organized with ease.

* Firebase was used to create database for our system.

Firebase provides powerful feature, has three core services: a Real time database, user authentication, and hosting.

The attendance system server should be auto start on the installation. Then it can find the current attendance information with user attendance and information then store it to the server database (Firebase). The database manager uses to manage the database of the application. User will look for the attendance and gets information from the database.

Graphical user interface, text, application, email

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Graphical user interface, text, application, email

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