

CHAPTER 3

EXTERNAL INTERFACE REQUIREMENTS

3.1 USER INTERFACE

3.2 HARDWARE INTERFACE

An android phone or tablet

3.3 SOFTWARE INTERFACE

✓ OS	-	Windows XP or above
✓ TOOLS	-	Eclipse, NetBeans IDE 8.0.1
✓ PLATFORM	-	Android SDK Framework
✓ IDE	-	Eclipse, NetBeans
✓ ANDROID EMULATOR	-	SDK Version 2.2 or higher
✓ TECHNOLOGIES USED	-	Java
✓ DATABASE	-	Google Firebase

3.4 COMMUNICATIONS INTERFACES

Firebase provides a real-time database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud. The company provides client libraries that enable integration with Android, iOS, JavaScript, Java, Objective-C, Swift and Node.js applications. The database is also accessible through a REST API and bindings for several JavaScript frameworks such as AngularJS, React, Ember.js and Backbone.js. The REST API uses the Server-Sent Events protocol, which is an API for creating HTTP connections for receiving push notifications from a server. Developers using the real-time database can secure their data by using the company's server-side-enforced security rules. Cloud Firestore which is Firebase's next generation of the Real-time Database was released for beta use.