Dr. D. Y. Patil Institute of Technology Pimpri, Pune - 411 018.

Department of Artificial Intelligence and Data Science

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**System Requirement Specification**

**For**

**Buddy For Hostellers**

# Section I: Introduction

# Introduction

## There are many students/bachelor who come from different cities for higher studies or to work, who struggle to find space for living and good food. This application will provide a platform to those students/ bachelors to find best suitable solutions for their needs.

## Problem Statement

## Nowadays a lot of students come from outside the city for higher studies. As many of them are not familiar with the area, they face various issues like finding place for their living and good food in surrounding area. This is a major issue for them. There are many sites that provide the details of the nearby residential properties for rent, but they are not dedicated for student requires. Also the same issue is faced for the day to day meals of the students/ bachelors.

## End Users

# Hostel provider

# Mess provider

# Students

## Project Scope

## The Project scope is not limited to providing mess and hostels we generate the different application based on the proposed system in future application

# Section II: Overall Description

# Overall description

## Product Perspective

* Buddy for hosteller’s application is android based application.
* This application is for those users who struggling to find hostel as mess as they are not familiar with that place
* This application provide user to find hostels and messes nearby him/her
* In this application hostel and mess provider can sign up for to give details about their mess and hostels and students can access that details to see which hostel or mess is best for him/her.

## User classes and their characteristics

## Hostel providers:

This user can provide information of their hostel. Like information of where is his/her hostel is located, price of hostel, facilities provided by their hostel and mess is available or not etc.

* **Mess Providers:**

This user can help in to provide details of their mess. Details provided by this user are:

* Where his/her mess located
* Price for day or month
* Delivery services is available or not
* Facilities
* Which type of food they provide
* **Students:**
* This user can search for hostel as mess by comparing all the searches related to his/ her convenience

## Operating environment

* Any android device from android 4.4 minimum

## Assumption and dependency

* Active internet connection should be there to use this application.
* User should enter correct information so that students get proper details

# Section III: External Interface Requirements

# External Interface Requirements

**3.1 User Interfaces**

* **Front-end software**: XML.
* **Back-end software**: Java
* **Database**: Google Firebase

**3.2 Hardware Interfaces**

* Android Operating System

**3.3 Software Interfaces**

* **Operating system**: We have chosen Android operating system for its best support and user friendliness.
* **Database**: To save the user records we have chosen Firebase database.
* **Android studio**: To develop app
* **JDK**: To get environment of java development

**3.4 Communication Interfaces**

* Our Project belongs to Android application by which we are connecting user and Local Server with request and response form.

# Section IV: System Features

# System Features

## Provide Hostel

This application will provide you a platform to find hostels easily by comparing different options and choice which option is best suited for you.

## Provide mess

This application will provide you a platform to easily find mess service nearby your leaving area or hostel.

## Easy to search and Comparison

This app will show you best suited hostel and mess according to your search and by using all search result provided by this app you can easily find your best mess/ hostel according to you budget or convenience.

## User authentication

In this application we have added authentication for both hostel/mess provider and also for the students who want hostel/mess nearby him/her area. Due to this authentication app provide more security to user and user will stay happy to use this app.

# Section V: Non- Functional Requirements

# Non-functional requirements

**5.1 Performance Requirements**

For good performance, the system should be tuned to server only server process and most of the RAM should be used for our application.

**5.2 Safety Requirements**

For the safety purpose backup of the database must be required. To avoid illegal use of the system, while using this System.

**5.3 Security Requirements**

The system should be safe because we use the Android OS; with firewall system therefore the System should have proper security so that it cannot be hacked.

**5.4 Software Quality Attributes**

Application will satisfy following software quality attributes:

* **Correctness**: System is planned in such way that it will give most correct output.
* **Reusable**: This software is reusable.
* **Availability**: As the System is an Android Application it is always available and need of Android OS for its installation.

Also system satisfies other quality attributes such as reliability, Data Integrity, maintainability and Scalability.

# Section VI: System Requirements

# System requirements

**6.1 Database Requirements**

**a. Logical Database Requirements:** A logical database can stretch over multiple physical Hard disks and information files. The data storage unit is still a single database for Information retrieval purposes. To have a logical database, all given hard disks and information files must be accessible from a single source.

**b. Physical Database Requirements**: A physical database is technically a smaller unit of storage referred to as a company, field, record or table, de- pending on how much information the physical storage device contains. A field is the smallest unit of storage housing only a single file.

**6.2 Software Requirements**

* Android Operating System minimum 4.4
* Frontend: XML.
* Backend : Java
* Database : Google Firebase

**6.3 Hardware Requirements**

* Processor : Any processor can work
* RAM : 1GB (min)
* Hard Disk : 100 MB (min)

# Section VII: References

<https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc>