A Project Report On "DEACON"

(IT-253 Software Group Project)



Prepared By:

Ramaiya Dhruvi(D21DIT110)

Vandit Bera(D21DIT112)

Pavan Mehta(D21DIT113)

Sheel Sachania(D21DIT114)

Under the guidance of

Prof. Bansari Patel

Teaching cum research assistant Professor

(Department of Information Technology Department)

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IT Depstar At:

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DECLARATION BY THE CANDIDATE CERTIFICATE

This is to certify that the report entitled "**DEACON**" is a bonafied work carried out by Ramaiya Dhruvi(D21DIT110) Vandit Bera(D21DIT112) Sheel Sachania(D21DIT114) Pavan Mehta(D21DIT113) under the guidance and supervision of Assistant Prof. BANSARI PATEL for the subject IT253 -Software Group Project-I IT of 4th Semester of Bachelor of Technology in **DEPSTAR at Faculty of Technology & Engineering – CHARUSAT, Gujarat.**

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

Bansari Patel

Teaching cum research assistant Professor

(Department of Computer Science Engineering)

IT DEPSTAR, Changa, Gujarat.

Dr. Amit Nayak

Head of Department,

Information Technology,

Charusat, Changa, Gujarat.

Dr. Amit Ganatra Principal,

DEPSTAR Dean.

FTE CHARUSAT, Changa, Gujarat.

Devang Patel Institute of Advance Technology And Research At: Changa, Ta. Petlad, Dist. Anand, PIN: 388 421. Gujarat

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Yours Faithfully

Ramaiya Dhruvi(D21DIT110)

Vandit Bera(D21DIT112)

Pavan Mehta(D21DIT113)

Sheel Sachania(D21DIT114)

Abstract

This is an android chat app. Now a days the digital communication industry is evolving rapidly. A chat application makes it easy to communicate with people anywhere in the world by sending and receiving messages in real time. A chat app that's composed of real-time messaging features enables users to have an authentic and interactive experience. So we have built an app mainly to serve this purpose keeping the neccessities in mind. The main objective of the Deacon is to manage the details of Online Chat, Chat History, Chat profile, Users. It manages all the information about Online Chat.

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Chapter 1

Introduction and Objective of Project

1.1	Introduction	L
1.2	Scope Of Pr	oject
1.3	Objective	Of
	Project	
1.4	Project	
	Overview	

1.1 Introduction Of Project.

An online chat is an instrument that ensures communication between a <u>lead</u> and a company's support agent. It helps answer client's questions and solve problems. Live chat opens automatically when a user visits a website or clicks a special widget.

1.2 Scope of System

To easily to learn computer/IT related courses. Like programming languages, software development, etc.

1.3 OBJECTIVE OF PROJECT

The main objective of the Deacon is to manage the details of Online Chat, Chat History, Chat profile, Users. It manages all the information about Online Chat.

The project is totally built at administrative end and thus only the administrator is guaranteed the access. Main objective of this is to present a software application for the launching of a real time communication between operators/users. The system developed on android will enable the users to communicate with another users through text messages with the help of internet.

1.4 Project Overview

Each module intended to perform some specific task that provide facilities in the app. The following are the modules of:

- o User Login
- o OTP Verification
- Profile Setup

1. User Login

User must be able to Login for the application through a valid phone number. On installing the application, user must be prompted to register their e-mail id. If user skips this step, application should close. The users e-mail id still be the unique identifier of his/her account on Deacon app.

2. OTP Verification

When user enter Mobile number, they will get the sms of one time password to verify the mobile number

3. Profile Setup

When user successfully enter otp, admin will ask them for profile setup.

CHAPTER-2

TOOL, PLATFORMS AND LANGUAGES

- 2.1 Hardware requirements
- 2.2 Software requirements
- 2.3 Detail description of technology

2.1 HARDWARE REQUIREMENTS:

• Processor i5 or higher or equivalent

• Processor Speed: 2.3 GHz

Hard disk space: more than 100 GBRam Memory: 8 GB or higher

2.2 SOFTWARE REQUIREMENT:

- Operating System Windows
- Android Studio
- Database Server Firebase

2.3 DETAIL DESCRIPTION OF TECHNOLOGY:

• Android is a mobile operating system developed by Google. It is based on a modified version of the Linux kernel and other open source software and is designed primarily for touchscreen mobile devices such as smartphones and tablets. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

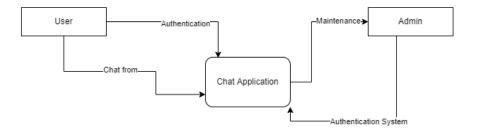
CHAPTER-3 COMPLETE PROJECT STRUCTURE

- 3.1 Data flow diagram
- 3.2 Use-case diagram
- 3.3 Class diagram
- 3.4 Data Dictionary

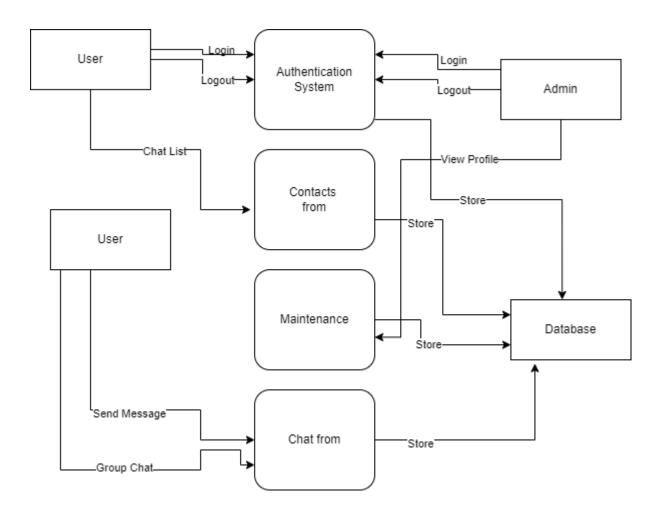
3.1 DATA FLOW DIAGRAM:

A Data Flow Diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system without going into detail, which can later be elaborated.

Level 0 Diagram:

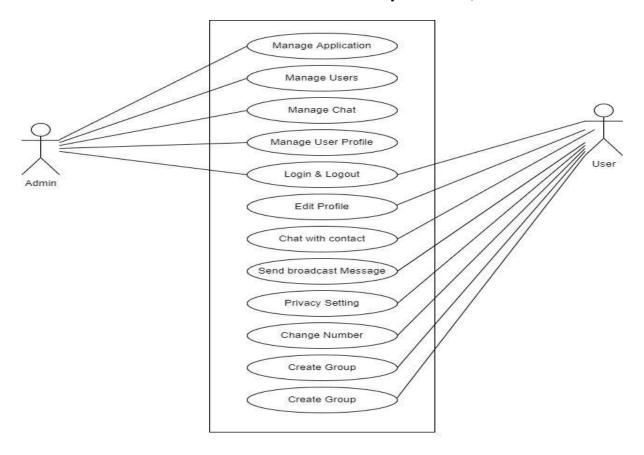


Level 1 Diagram:



3.2 Use Case Diagram

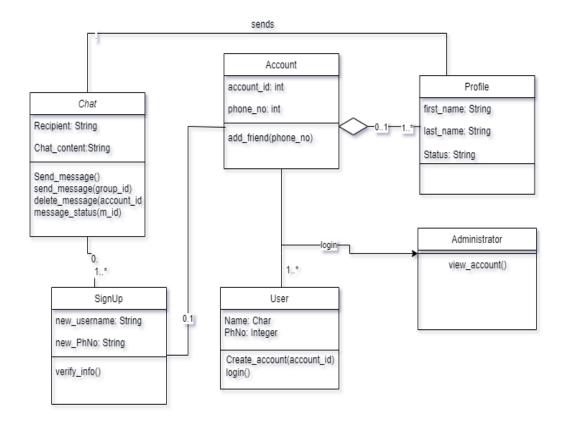
Use case diagram are usually referred to as behaviour diagram used to describe a set of action (use cases) that some system or system (subjects should or can perform in collaboration with one or more external users of the system actors).



Class Diagram:

The class diagram is the main building block of object-oriented modeling.

- It is used for general conceptual modeling of the structure of the application, and for detailed modeling translating the models into programming code.
- Class diagrams can also be used for data modeling.



3.5 Data Dictionary:

The second major component of the structured analysis model of the system is the data dictionary. The data dictionary contains formal definitions of all the data items shown in the dataflow diagrams. A data dictionary is a file or a set of files that contains a database's metadata. The data dictionary contains records about other objects in the database, such as data ownership, data relationships to other objects, and other data.

User Table:-

Column Name	Data Type	Allow Nulls
User_id(Primary Key)	varchar(50)	Not Null
Status	varchar(50)	Not Null
User_Name	varchar(50)	Not Null
Mobile_Num	varchar(50)	Not Null
password	varchar(50)	Not Null
Country	Varchar(50)	Not Null

Admin Table:-

Column Name	Data Type	Allow Nulls
Admin_id(Primary Key)	varchar(50)	Not Null
Admin_name	varchar(50)	Not Null

History Table:-

Column Name	Data Type	Allow Nulls
id(Primary Key)	varchar(50)	Not Null
Date	varchar(50)	Not Null
Description	Varchar(50)	Not null

Chat Table:-

Column Name	Data Type	Allow Nulls
Chat_id(Primary Key)	varchar(50)	Not Null
Chat_type	varchar(50)	Not Null
Chat_desc	Varchar(50)	

Message Table:-

Column Name	Data Type	Allow Nulls
Msg_id(Primary Key)	varchar(50)	Not Null
Time	int(30)	Not Null
Emoji_reactions	Varchar(50)	

Group Table:-

Column Name	Data Type	Allow Nulls
Group_Id(Primary Key)	varchar(50)	Not Null
Group_user_name	varchar(50)	Not Null

Chapter 4:

Snapshots

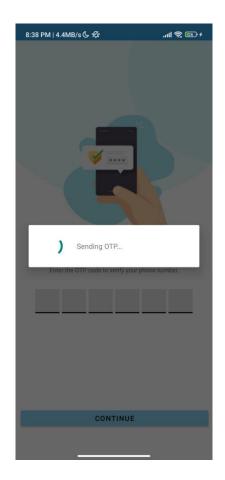
1. login Page



2. Mobile number Verification



3. Sending OTP

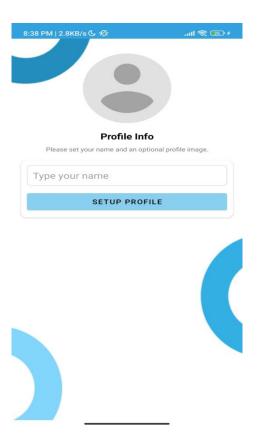


4. Entering OTP

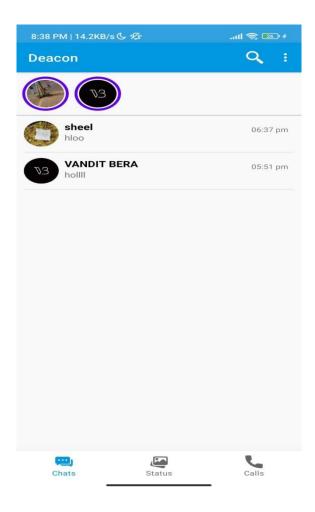


CONTINUE

5. Setting up Profile



6. Home Page



Chapter 6:

Project Outcome:

Through this application user will be able to send and receive messages by typing messages with the help of internet. A chat application **allows you to message or contact a person in real-time**. In some cases, it becomes the bridge on where customers, potential leads, prospects could ask inquiries about products or services, and you can respond instantly.

Turn on chat features in Messages

- Send messages over Wi-Fi and mobile data, instead of SMS or MMS.
- Add people to group conversations.
- Find out when others are typing.
- Let others know you've read their messages.
- Share high-quality photos.

Chapter 7:

Future Enhancement:

We are trying to add Features to enhance our project.

• In additional, we can add Features like video calls and voice calls.

Chapter 8: Bibilography:

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- https://developer.android.com
- Diagram made in: https://www.draw.io
- Course: https://www.udemy.com
- YouTube: https://www.youtube.com
- Application Screenshots:
- Register and Login: https://figma.com/shots/6371155-Sign-in-Sign-up-UI
- Home page: https://figma.com/shots/13999365-Learn-Business-AppExploration
- www.Github.com