INTERNSHIP PROGRAM
2023

PROJECT REPORT

ANDROID DEVELOPMENT

ANDROID APP FOR INFORMATION SHARING AND ENGAGEMENT OF AUDIENCES OF CLOUD COUNCELAGE Pvt.Ltd

Cloud Counselage

INDUSTRY ACADEMIA COMMUNITY

GIFT A CAREER FOUNDATION

Page left blank intentionally

INDEX

1 PROJECT DETAILS

Project Name	Android app for information sharing and engagement with the audience of Cloud Counselage Pvt.Ltd.		
Project Sponsor	Tushar Topale		
Project Manager	Harshada Topale		
Start Date	1-08-2023	Completion Date	30-09-2023

1 SUMMARY

The Android app development project aimed to create an innovative platform for Cloud Counselage Pvt. Ltd. that facilitates information sharing and engagement with its audience. This project was necessitated by the growing demand for hybrid applications, driven by their cross-platform compatibility and cost-effectiveness, making them an attractive choice for businesses seeking wider user reach and cost-efficient development.The long-term benefits of this project include improved user engagement, efficient access to company information, enhanced user experience through a user-friendly login and sign-up process, and the incorporation of a chatbot for real-time assistance. The completion of this project aligns with the company's strategic goals of expanding its digital presence and providing a responsive and interactive user interface.

2 INTRODUCTION

2.1 Background

Android app development has seen exponential growth over the years, with millions of applications available on Google Play Store.The demand for the hybrid application, like the one require for cloud concelage Pvt Ltd, has been steadily increasing due to their cross-platform compatibility and cost effectiveness, making them a popular choice for business seeking wide user reach and reduced development.

2.2 Stakeholders

The project stakeholders include the project sponsor, Tushar Topale, and the project manager, Harshada Topale. Additionally, key stakeholders include Cloud Counselage Pvt. Ltd. executives, end-users, and the development team responsible for app creation.

2.3 Objectives

The project objectives encompass the following:
1. Implementation of a splash screen/introductory screen.
2. Development of a user-friendly login and sign-up page with email and social media platform integration.
3. Integration of Firebase for real-time data storage.
4. Implementation of data validation and error handling for user inputs.
5. Introduction of a chatbot for user engagement and information dissemination.

3 METHODOLOGY

These conventions are all about the positions of line breaks, how many characters should go on a line, and everything in between.

3.1 Considerations & Assumption

One Assumption is that when user will use thai app then internet access should be accepted ot internet connection should be present to successfully get the authentication of the account and also can communicate with chat bot , because chatbot is created using Dialog flow so , when ever user will give one question input the respected reply will be fetched from the API , for that internet is important.

3.2 Approach

The project approach involved the following steps:
● Requirements Gathering.
● Design Planning, with a focus on creating an attractive and user-friendly UI.
● Development, including Firebase Authentication, Real-Time Database, and Firebase Storage for profile pictures.
● Chatbot implementation using Dialogflow, with FAQ integration.
● Manual testing of each feature.
● Deployment to GitHub for version control.

3.3 Activities
The project activities included:

● Comprehensive requirements gathering to define project scope.
● Thorough design planning to ensure an appealing UI.
● Step-by-step development of features, prioritizing user authentication and data storage.
● Manual testing to verify the app's functionality and user experience.
● Deployment to GitHub for collaborative development and version control.

4 TARGETED V/S ACHIEVED OUTPUT

As Described in the Objective section , all the targeted output is implemented. But one thing I'm trying to solve is one Social Login Using FaceBook which is not done yet, because of the issue of set-up the facebook credentials. Except this all the Targeted Output is Implemented .

5 CONCLUSION

This Android app development is relevant for Cloud Counselage Pvt.Ltd as it enables them to reach a border audience, provide user friendly log-in and sign-up experience, Utilise real-time database integration, and enhance customer engagement through a chat bot , all while offering cost-effective solutions through android application. Currently in this app the chat bot will respond only to the questions which are set in the Dialog flow intents , so in future this chat bot will work on AI-ML technology to provide more question answers.

6   APPENDICES

6.1   Appendix A – Title

Identification	Splash Screen
Type	Activity
Purpose	Display the initial splash screen with branding.
Subordinates	NA
Dependencies	NA
Interfaces	NA
Resources	Resources for displaying the splash screen.
Processing	Display the splash screen for a set duration.
Data	NA

Identification	Sign Up Fragment
Type	Fragment
Purpose	Allow users to register with profile information.
Subordinates	Authentication Activity (AuthActivity)
Dependencies	Auth Navigation Controller

Interfaces	User input fields for registration.
Resources	Database access for storing user information.
Processing	Validate and store user data.
Data	User name , email ,password

Identification	Sign In Fragment
Type	Fragment
Purpose	Enable user login via email and password or social media accounts.
Subordinates	Authentication Activity (AuthActivity)
Dependencies	Auth Navigation Controller
Interfaces	User input fields for login, also social login options.
Resources	Firebase for authentication.
Processing	Authenticate users based on input credentials.
Data	Login credentials provided by user

Identification	Home Fragment
Type	Fragment
Purpose	To show the general informations of IAC
Subordinates	HomeActivity
Dependencies	NA

Interfaces	NA
Resources	Normal general Information Gathered form internet
Processing	NA
Data	NA

Identification	Profile Fragment
Type	Fragment
Purpose	Display user profile details and provide options to change profile picture.
Subordinates	HomeActivity
Dependencies	Home Navigation Controller
Interfaces	User profile data display and options for profile picture change.
Resources	Database access for user profile data.
Processing	Display user data and handle profile picture changes.
Data	User Credentials Username and email id with profile picture

Identification	Chat Fragment
Type	Fragment
Purpose	Implement chat functionality with a Dialog Flow chatbot.
Subordinates	HomeActivity
Dependencies	Home Navigation Controller

Interfaces	Chatbot interface for user queries.
Resources	Dialog Flow for chatbot communication.
Processing	Handle user queries and chatbot responses.
Data	Chat between user and Dialog flow.