ROOMMATE

GUIDED BY:
Ms SHAMA KABEER

CREATED BY:

ABAY SEVI

AISWARYA EK

TERIN TOM

SANALJITH P

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INTRODUCTION

<u>GOAL</u>

-TO CREATE AN APPLICATION TO HOST OR FIND APARTMENT/ROOM TO FIND ROOMMATES.

-FREE OFF CHARGE.

- FOLLOW CURRENT STANDARDS FOR SECURITY.

INTRODUCTION contd

DESIGN PHILOSOPHY

DESIGN FOR :

->EXTENSIBILITY

->SIMPLICITY

->FUTURE PROOF

PROBLEM IDENTIFICATION

- Let person A got a job in a place where he/she is not much familiar.
- So he/she needs to find a place to stay but the rooms available are too expensive.
- This is the place where the Roommate app comes to use in to use by this app he/she will be able to find a person who is willing to share the room with him so that they can come together to afford the rent price of the room.

SOFTWARE SPECIFICATION

- FLUTTER
- FIREBASE
- GIT
- ANDROID SOFTWARE TOOL CHAIN
- VSCODE

FLUTTER

DEFINITION

OPEN SOURCE APP DEVELOPMENT FRAMEWORK.

WHY WE USED IT

WELL DOCUMENTED & SIMPLE.

CROSS PLATFORM : ONE CODE BASE FOR ALL SYSTEMS.

MODULAR : CODE IS EASY TO MODERATE AND CHANGE.

FIREBASE

DEFINITION

- BACKEND AS SERVICES, PROVIDE A FOSS TOOLS AND SERVICES BUNDLED TOGETHER.

WHY WAS IT USED

EXTENSIBLE : LOT OF BUILT IN TOOLS.

SUPPORT MANY API INTEGRATIONS.

WELL DOCUMENTED & SUPPORTED.

GIT

DEFINITION

- DISTRIBUTED VERSION CONTROL SYSTEM.

WHY WAS IT USED

- EASY TO COLLABORATE.

- DISTRIBUTED DEVELOPMENT & BRANCHING.

- TRACKS HISTORY.

ANDROID SOFTWARE TOOL CHAIN

DEFINITION

COMPONENTS FOR ANDROID SDK, HELPS TO INTERFACE WITH ANDROID PLATFORM.

WHY WAS IT USED

- EASY TO USE AND CONNECT ANDROID DEVICES FOR SOFTWARE DEVELOPMENT.
- CREATED AND SUPPORTED BY ANDROID DEVELOPERS.

VSCODE

DEFINITION

- MODERN CODE EDITOR WITH A LOT OF USEFUL FEATURES.

WHY WAS IT USED

- ROBUST SUPPORT SYSTEM USING EXTENSIONS
- INTELLISENSE :- ADVANCED AUTO COMPLETION AND SYNTAX HIGHLIGHTING FEATURE.
- EASY INTEGRATION WITH ALL OTHER SOFTWARE USED.

PROPOSED SYSTEM

- AN APPLICATION TO TO FIND ROOMMATES.

<u>FEATURES</u>

- FREE AND OPEN SOURCE (BSD LICENSE).
- SIMPLE AND SECURE.
- INTEGRATION WITH USEFUL APIs.
- PROFILING & TRACKING EXPENSES AND USER.

FINDING A ROOMMATE

CREATE ACCOUNT	GOTO NAVIGATION	FINDING THE RIGHT HOST	FINALIZING

CREATE ACCOUNT
- CAN USE EMAIL OR PHONE NUMBER TO CREATE ACCOUNT
- OR LOGIN IF ACCOUNT
- SETTING UP YOUR PROFILE

GOTO NAVIGATION
- GOTO SEARCH BAR TO SEARCH FOR THE LOCATION/AREA
- AFTER THE SEARCH DISPLAY REFER THE RESULTS.

FINDING THE RIGHT HOST
- REVIEW EACH SEARCH RESULTS.
- LOOK OUT FOR THE KEYWORDS TO UNDERSTAND WHAT THE HOST IS EXPECTING

FINALIZING
- THE COMMUNICATION DETAILS WILL BE PROVIDED WITHIN THE POST.

CONTD.

HOSTING FOR A ROOMMATE

CREATE ACCOUNT	CREATE A POST	PROCESSING	FINALIZING
- CAN USE EMAIL OR PHONE NUMBER TO CREATE ACCOUNT	- CREATE A POST FOR FINDING A ROOMMATE	- INTEGRATED API WILL PROCESS THE GIVEN INFO AND TRY TO MATCHMAKE YOU TO SUITABLE ROOMMATE	- THE COMMUNICATION DETAILS WILL BE PROVIDED WITHIN THE POST.
- OR LOGIN IF ACCOUNT	- BE SURE TO ADD SPECIFICATIONS ON THE APART/ROOM		
- SETTING UP YOUR PROFILE		- THE TIME REQUIRED TO FIND IS VARIABLE.	

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ROOMMATE

- **<u>CURRENT CONSTRAINTS</u>** :-

  -> NO SUPPORT FOR APPLE DEVICES AS OF NOW.

  -> NO INBUILT CHAT OR PAYMENT OPTIONS.

- **<u>FUTURE UPDATES</u>**

  -> ADDING A CERTIFICATION SYSTEM.

CONCLUSION

- APPLICATION DEVELOPMENT HAS GIVEN US INSIGHT HOW AN IDEA IS MADE INTO A SOFTWARE.
- ANDROID DEVELOPMENT, AS IT OF NOW CAN BE DEVELOPMENT FREE OF COST WITH FREE AND OPEN SOURCE SOFTWARE.
- TOOLS LIKE VSCODE MAKES IT EASY FOR A NEWCOMER OPEN THE DOORS TO APPLICATION DEVELOPMENT MAKING IT APPROACHABLE.

REFERENCES

- FLUTTER : https://flutter.dev/
- FIREBASE : https://firebase.google.com/
- ANDROID : https://www.android.com/intl/en_in/
- VSCODE : https://code.visualstudio.com/
- GIT : https://git-scm.com/
- BSD LICENSE : https://opensource.org/licenses/BSD-3-Clause