

# ROOMMATE

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# INTRODUCTION

## GOAL

- 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

# SOFTWARE SPECIFICATION

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

CONTD.

# 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.

CONTD.

# 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.

CONTD.

# GIT



## **DEFINITION**

- DISTRIBUTED VERSION CONTROL SYSTEM.

## **WHY WAS IT USED**

- EASY TO COLLABORATE.
- DISTRIBUTED DEVELOPMENT & BRANCHING.
- TRACKS HISTORY.



CONTD.

# 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.

CONTD.

# 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.

# ROOMMATE



- AN APPLICATION TO TO FIND ROOMMATES.

## **FEATURES**

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

CONTD.

# FINDING A ROOMMATE

## 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.

# HOSTING FOR A ROOMMATE

## CREATE ACCOUNT

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

## CREATE A POST

- CREATE A POST FOR FINDING A ROOMMATE
- BE SURE TO ADD SPECIFICATIONS ON THE APART/ROOM

## PROCESSING

- INTEGRATED API WILL PROCESS THE GIVEN INFO AND TRY TO MATCHMAKE YOU TO SUITABLE ROOMMATE
- THE TIME REQUIRED TO FIND IS VARIABLE.

## FINALIZING

- THE COMMUNICATION DETAILS WILL BE PROVIDED WITHIN THE POST.

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## ROOMMATE

- **CURRENT CONSTRAINTS** :-
  - > NO SUPPORT FOR APPLE DEVICES AS OF NOW.
  - > NO INBUILT CHAT OR PAYMENT OPTIONS.
- **FUTURE UPDATES**
  - > 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/](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>