

# **CAREER CRAFTER**

**A report submitted in partial fulfillment of the Academic requirements for the award of  
the degree of**

**Bachelor of Technology**

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**UNDER THE COURSE**

**SOCIAL INNOVATION IN PRACTICE**



**CENTRE FOR ENGINEERING EDUCATION RESEARCH**

**CMR COLLEGE OF ENGINEERING & TECHNOLOGY**

**(Autonomous)**

**(NAAC Accredited with 'A+' Grade & NBA Accredited)**

**(Approved by AICTE, Permanently Affiliated to JNTU Hyderabad)**

**KANDLAKOYA, MEDCHAL ROAD, HYDERABAD-501401**

**2023-24**

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**CERTIFICATE**

This is to certify that the report entitled “**CAREER CRAFTER**” is a bonafide work done by **DarshanSKagi(22H51A6676),K.Durgaram(22H51A6695),P.Sharathkumar(22H51A66B6), Varnika Pandey(22H51A66C6),Y.Nikhitha(22H51A66C8),J.Krishnapriya(23H55A6610)** of II B.Tech, in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology, submitted to Centre for Engineering Education Research, CMR College of Engineering & Technology, Hyderabad during the Academic Year 2023-24.

**( Names of the project coordinators)**

1. Mr. G. Karthik reddy , Asst. Prof CEER/ECE
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**(Mr. B.Suresh Ram)**

HOD-CEER

## **DECLARATION**

We, the students of II B.Tech of Centre for Engineering Education Research , CMR COLLEGE OF ENGINEERING & TECHNOLOGY, Kandlakoya, Hyderabad, hereby declare, that under the supervision of our course coordinators, we have independently carried out the project titled **“CAREER CRAFTER”** and submitted the report in partial fulfillment of the requirement for the award of Bachelor of Technology in by the Jawaharlal Nehru Technological University, Hyderabad (JNTUH) during the academic year 2023-2024.

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Finally, we thank all our faculty members and Lab Assistants for their valid support.

We own all our success to our beloved parents, whose vision, love and inspiration has made us reach out for these glories.

## ABSTRACT

The youth of this generation attempt for so many interviews but struggle to find the right source that helps them guide towards the questions, patterns etc. Each company has its own ornamentation which makes them confusing. For this they search for an easy and efficient solution. This project introduces a versatile app for software interview preparation. It features problem topics, difficulty levels, and company-specific questions, each with code and video solutions. Additional sections cover HR questions, data science, aptitude, resume templates, company principles, interview etiquette, and a community for discussion. The app provides a holistic approach to empower students for successful software interviews. This paper outlines appropriate preparation for a job interview, including preparing yourself to focus on your own personal assets and on what you can bring to the job. The various kinds of interview questions are examined: the traditional- 'tell me about yourself'; questions you dread because they will home in on 'weaknesses' and the unusual, open-ended questions intended to uncover specific information. Suggestions are given on how to use the experience of an interview to your own advantage, whether your application is successful or not. An interview is a meeting of people in a face-to-face situation. In common parlance, the word interview refers to a one-on-one conversation. This is done with one person acting in the role of interviewer and another in the role of the interviewee. The interviewer is the person taking the interview, he/she asks the questions and seek an answer to the questions. The interviewee is the respondent and answers all the questions. The objective of this approach is to provide a comprehensive platform for software engineering students to prepare for job interviews. The web app aims to address the challenges that students face in organizing their preparation, finding relevant resources, tracking their progress, and accessing feedback and support.

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## CHAPTER-1

### INTRODUCTION

This app is designed to help you ace your upcoming job interviews by providing you with valuable resources, tips, and practice materials. In today's competitive job market, it is essential to be well-prepared and confident when attending an interview. Our app is here to support you throughout the entire process, from researching potential employers to mastering common interview questions and improving your communication skills. With our app, you'll have access to an extensive library of interview questions and answers specific to various industries and job roles. Whether you are a fresh graduate or a seasoned professional, our interview preparation app is tailored to meet your specific needs. We believe that with the right preparation and practice, you can increase your chances of success and land the job of your dreams. When I first crafted my summary almost a decade ago, I simply regurgitated key points in my background, and so on. Looking back, I was missing a clear narrative pulling it all together. I also realized that potential clients aren't just looking for someone with a shiny, perfect track record; they're looking for a bigger story, a solution to their problem, and a relationship they can trust. This is optional, but it will serve you in several ways. First, it will show that you're a team player, and second, it will show that you're committed to both your professional growth and your current company's growth. It's a must-have if you're in the business of recruiting, as this can serve as an excellent recruiting tool. For example, are you a team manager for job openings? Your summary should speak to the fact that you have openings, the type of work you do, and why a candidate would want to work at your company.

## CHAPTER-2

### LITERATURE REVIEW

#### 2.1. Existing Solutions:

##### 1.India Bix

IndiaBIX is a popular website among students. It has extremely helpful content for aptitude preparation. Students preparing for government entrance exams will find relevant content on IndiaBIX. IndiaBIX has sections on General Aptitude, Verbal and Logical Reasoning, Current Affairs, General Knowledge, Puzzles, etc



FIG.1:INDIABIX

#### DISADVANTAGES:

While Glassdoor provides valuable insights into companies and job listings, it does not offer personalized interview preparation resources. Users may have to sift through a lot of information to find relevant interview experiences.



## 2.CV Engineer



FIG 2:CV Engineer

CV Engineer is a simple way to build a PDF resume for your job applications. Featuring helpful examples, advice, and resume templates. All written by a professional recruiter. We ensure you have the perfect CV to impress employers.

### **DISADVANTAGES:**

This app focuses on resume creation but does not provide comprehensive interview preparation resources. It lacks features like mock interviews, aptitude tests, or a repository of potential interview questions.

### 3. Glass Door



FIG3: Glass Door

This app gives you all the required insights into the company such as the latest job listings, company reviews, interview experiences, and even salary reports.

This simplifies your search, so you can apply for jobs with confidence. Filter millions of jobs and ratings, talk to professionals, and get smart on salary—then apply with ease.

#### **DISADVANTAGES:**

While Glassdoor provides valuable insights into companies and job listings, it does not offer personalized interview preparation resources. Users may have to sift through a lot of information to find relevant interview experiences.

#### **GAPS IN EXISTING SOLUTIONS:**

All the existing solutions have many disadvantages. The following are the gaps we found in those existing solutions:

Limited personalized interview preparation resources

Users may need to sift through a lot of information for relevant interview experiences

Lacks comprehensive interview preparation resources

May lack personalized learning experiences

Does not offer company-specific interview preparation

### PROPOSED SOLUTION:

The app I developed is a comprehensive solution for students preparing for software interviews. It covers various aspects:

1. Problem Topics
2. Problem Difficulty
3. Company wise
4. HR Questions
5. Data Science
6. Aptitude
7. Resume
8. Company Principle
9. Interview Etiquette
10. Join Community

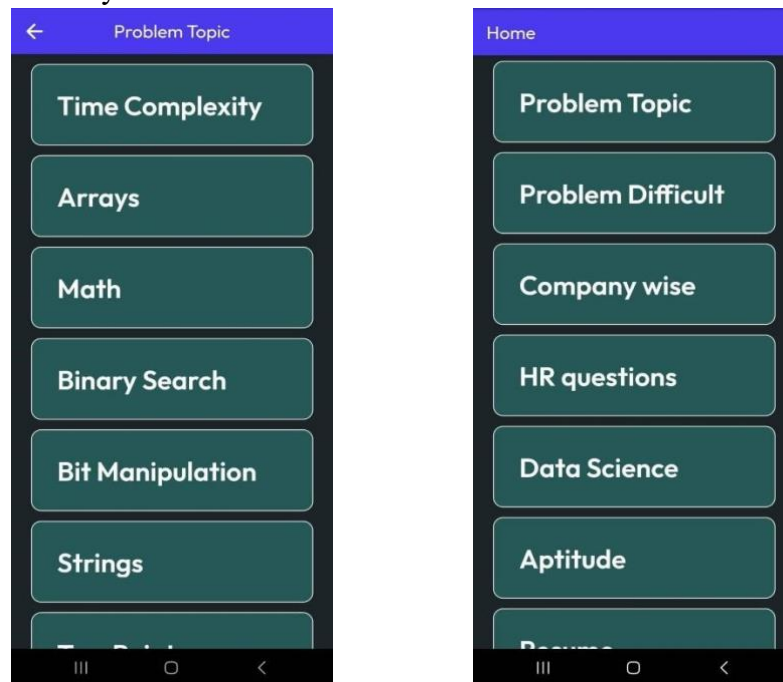


FIG4: PROTOTYPE MODEL

## CHAPTER-3

### PROBLEM DEFINITION

#### 3.1 Problem Statement:

The process of preparing for interviews is often challenging and requires significant dedication and effort. Despite the availability of numerous resources, there is a lack of a centralized, efficient, and effective platform that can aid in this preparation process. The need for a comprehensive tool that provides a wide range of interview questions and answers, caters to various skill levels, and enhances the learning process is evident.

#### 3.2 Objective:

The primary objective of this project is to empower students in their software interview preparation through a comprehensive and user-friendly mobile application. The app is designed to offer a structured approach, catering to various aspects of interview readiness.

#### 3.3 Requirement Analysis:

##### 1. Problem Topics:

1. User Input: Users should be able to select specific topics from a categorized list.
2. Question Variety: Ensure a diverse set of questions under each topic.
3. Solution Formats: Incorporate both code solutions and video explanations for each question.

##### 2. Problem Difficulty:

- User Selection: Provide options for users to choose the difficulty level (easy, medium, hard).
- Question Distribution: Ensure a balanced distribution of questions across difficulty levels.
- Comprehensive Solutions: Include code solutions and video explanations for each difficulty level.

##### 3. Company-wise Questions:

- Company Selection: Allow users to pick questions based on specific companies.
- Company List: Maintain an updated list of companies for users to choose from.
- Question Quantity: Include a substantial number of questions for each selected company.
- Solution Formats: Ensure each question has accompanying code solutions and video explanations.

### 4. HR Questions:

- Category Options: Provide options for traditional, behavioral, option-based, brainteaser, salary-related, and exploration of HR questions.
- Company-specific Exploration: Enable users to explore HR questions asked in specific companies.
- Diversity in Questions: Offer a variety of questions within each HR category.
- Solution Presentation: Include code solutions and video explanations for HR questions.

### 5. Data Science and Aptitude Sections:

- Distinct Sections: Clearly segregate Data Science and Aptitude sections.
- Question Variety: Include a wide range of questions in each section.
- Solution Formats: Ensure code solutions and video explanations accompany each question.

### 6. Resume Templates:

- Position Selection: Allow users to choose resume templates based on different positions.
- Template Quality: Provide high-quality and professionally crafted resume templates.

### 7. Company Principles:

- Company Information: Include concise and informative sections on the principles of various companies.

### 8. Interview Etiquette:

- Section Division: Clearly define sections for interview manners before, during, and after the interview.
- Comprehensive Guidance: Offer detailed guidance on each aspect of interview etiquette.

### 9. Join Community:

- Community Integration: Integrate a platform for users to join and participate in discussions.
- User Interaction: Facilitate user interaction through forums, threads, or other communication channels.

### 10. Note Section:

- Visibility: Ensure that the note about each question having code and video solutions is prominently displayed.
- Consistency: Maintain consistency in providing code solutions and video explanations for all questions.

**11. Development Tools:**

- **Android Studio and Flutter Integration:** Develop the application using Android Studio and Flutter for a cross-platform experience.
- **Design Tool Integration:** Utilize Figma for designing a user-friendly and visually appealing interface.

**12. Deployment and Management:**

- **Google Play Console:** Implement integration with Google Play Console for efficient app deployment, monitoring, and management. This extended Requirement Analysis incorporates the use of development tools such as Android Studio, Flutter, and Figma , along with integration with Google Play Console for effective deployment and management of the application.

## CHAPTER-4

### METHODOLOGY

The methodology employed in developing this software interview preparation app is structured around a comprehensive approach to address the diverse needs of students. The app is designed with a systematic framework that includes Problem Topics, Problem Difficulty, Company-wise preparation, HR interview questions, Data Science, Aptitude, Resume building, Company Principles, Interview Etiquette, and a Community for discussion.

#### 4.1 CONCEPTUAL DESIGN:

Conceptual Design for the Software Interview Preparation App:

##### 1. User Interface (UI):

- Dashboard: The home screen will present the user with options like "Problem Topic," "Problem Difficulty," "Company Wise," "HR Questions," "Data Science," "Aptitude," "Resume," "Company Principle," "Interview Etiquette," and "Join Community."
- Navigation: Users can seamlessly navigate between different sections of the app from the dashboard.

##### 2. Problem Topic Section:

- Categorization: Each problem topic (e.g., time complexity, arrays, etc.) is visually presented with a clear icon or tag.
- Filtering: Users can filter questions based on the selected topic, providing a focused study experience.
- Question Details: Clicking on a specific topic reveals a list of questions, each with code and video solutions.

##### 3. Problem Difficulty Section:

- Difficulty Levels: Clearly distinguish between easy, medium, and hard difficulty levels.
- Progress Tracking: Enable users to track their progress in each difficulty category.
- Question Pool: Ensure an ample number of questions for each difficulty level.

##### 4. Company Wise Section:

- Company Selection: Users can select companies of interest from the list.
- Question Variety: Each company section includes a diverse set of questions commonly asked by that company. Company Details Provide brief information about the selected company and its interview style.

### 5. HR Questions Section:

- Question Types: Present a variety of HR interview question types, including traditional, behavioral, option-based, brainteasers, salary-related, and explore HR questions.
- Company-Specific HR Questions: Incorporate a section dedicated to HR questions asked by specific companies.

### 6. Data Science Section:

- Topics: Clearly outline data science-related topics.
- Question Variety: Include questions covering different aspects of data science.
- Solution Resources: Link to relevant materials for further understanding.

### 7. Aptitude Section:

- Topics: List various aptitude topics.
- Practice Tests: Include timed aptitude tests for users to enhance their problem-solving speed.
- Answer Explanations: Offer detailed explanations for correct answers.

### 8. Resume Section:

- Templates: Present multiple resume templates for various positions.
- Customization: Allow users to customize the templates according to their preferences.

### 9. Company Principle Section:

- Principle Details: Display core principles of different companies.
- Corporate Values: Highlight the key values that companies emphasize.

### 10. Interview Etiquette Section:

- Guidelines: Provide pre, during, and post-interview etiquette tips.
- Video Resources: Include video resources for better understanding.

### 11. Join Community Section:

- Discussion Forum: Facilitate a community platform for users to discuss interview experiences, share insights, and seek advice.
- Moderation: Implement moderation features to ensure a positive and helpful community environment.

Overall, the conceptual design focuses on an intuitive and user-friendly interface, providing comprehensive resources for effective software interview preparation.



## 4.2 BLOCK DIAGRAM:

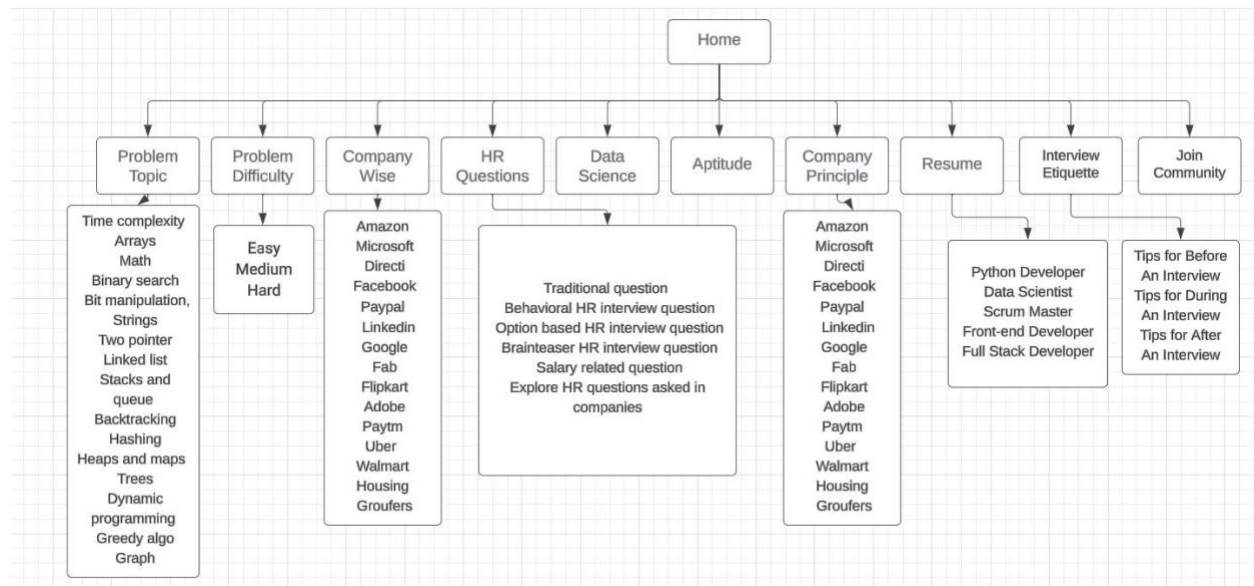


FIG5: Block diagram

## 4.3 DESIGN DESCRIPTION:

The design of the software interview preparation app is structured to provide a user-friendly and comprehensive experience for students seeking to enhance their technical skills. The app encompasses various features, each carefully designed to cater to specific aspects of the interview preparation process.

### 1. Problem Topic:

- **Interface:** The app's design focuses on an intuitive interface where users can easily navigate through a diverse set of problem topics. Each topic, such as time complexity, arrays, or graphs, is organized systematically for efficient access.
- **Question Repository:** The design incorporates a well-organized repository of questions under each topic, accompanied by code snippets and video solutions, ensuring a holistic learning experience.

### 2. Problem Difficulty:

- **User-Friendly Difficulty Selection:** The design includes a straightforward difficulty selection mechanism, allowing users to filter questions based on their skill level—easy, medium, or hard. This ensures tailored practice according to the user's proficiency.

### 3. Company Wise:

- **Company-Focused Interface:** For company-specific preparation, the app features a dedicated section where users can choose from a wide array of prominent companies. The design ensures an easy selection process, presenting questions asked by companies like Amazon, Microsoft, and many others.

### 4. HR Questions:

- **Comprehensive HR Section:** The HR section is designed to cover various facets of HR interviews. Users can choose from traditional, behavioral, option-based, brainteaser, and salary-related questions. The "Explore HR Questions Asked in Companies" option provides insights into specific companies' interview questions.

### 5. Data Science and Aptitude:

- **Specialized Sections:** The design includes distinct sections for Data Science and Aptitude questions, acknowledging the diversity of technical skills required during interviews. This ensures a targeted approach to these specific areas of preparation.

### 6. Resume and Company Principle:

- **Resourceful Repository:** The app features a repository of resume templates for different positions within companies. Additionally, there is a section dedicated to the principles of various companies, fostering a deeper understanding of organizational values.

### 7. Interview Etiquette and Join Community:

- **Guidance and Collaboration:** The design emphasizes the importance of interview etiquette with a dedicated section covering aspects before, during, and after the interview. The "Join Community" feature encourages users to engage in discussions, fostering a collaborative learning environment.

### 8. Note - Code and Video Solutions:

- **Enhanced Learning Experience:** Every question within the app is accompanied by both code solutions and video explanations. This dual-format approach ensures that users can learn through written code and visual explanations, catering to diverse learning preferences.

Overall, the design of the app prioritizes user experience, accessibility, and a comprehensive approach to interview preparation, making it a valuable tool for students aiming to excel in software interviews.

## CHAPTER-5

### IMPLEMENTATION

#### 5.1 RESULTS AND DISSCUSSION:

The app, tailored to assist students in preparing for software interviews, proves to be a versatile and comprehensive tool with its diverse features. Here's a breakdown of how each feature contributes to the app's effectiveness:

##### 1. Problem Topic:

- The app covers a wide array of problem topics such as time complexity, arrays, math, binary search, bit manipulation, strings, two-pointer, linked list, stacks and queues, backtracking, hashing, heaps and maps, trees, dynamic programming, greedy algorithms, and graphs.
- Each topic boasts a substantial number of questions, offering users a rich repository for practice and a deep understanding of various interview concepts.
- The provision of code and video solutions further enhances the learning experience, providing comprehensive guidance to users.

##### 2. Problem Difficulty:

- The categorization of problems into easy, medium, and hard difficulty levels accommodates users with varying proficiency levels.
- A generous number of questions under each difficulty level ensures a balanced approach to skill development, allowing users to progress from simpler to more challenging problems seamlessly.

##### 3. Company Wise:

- The app caters to targeted interview preparation by allowing users to filter questions based on specific companies such as Amazon, Microsoft, Directi, Facebook, and many others.
- The inclusion of questions from a diverse range of companies broadens the app's relevance, making it suitable for a wide user base seeking employment in various industry leaders.

### 4. HR Questions:

- The app addresses not only technical aspects but also the non-technical facets of interviews through dedicated sections for HR questions.
- Users can prepare for traditional, behavioral, option-based, brainteaser, salary-related, and explore HR questions specific to companies like TCS, Wipro, Cognizant, and others.

### 5. Data Science and Aptitude:

- Dedicated sections for Data Science and Aptitude questions reflect the app's adaptability to the evolving landscape of technical interviews.
- Users seeking roles beyond traditional software development can benefit from the app's diverse coverage.

### 6. Resume, Company Principle, Interview Etiquette, Join Community:

- The app takes a holistic approach by providing resume templates, insights into company principles, guidance on interview etiquette, and a community platform for discussion.
- These features contribute to a comprehensive interview preparation journey, covering both technical and non-technical aspects.

## 5.2 CONCLUSION:

In conclusion, the app's multifaceted design is poised to yield positive outcomes for users preparing for software interviews. The rich array of features ensures a thorough and tailored preparation experience, addressing the varied needs of individuals seeking success in the competitive software industry. Continuous updates and community engagement further enhance the app's effectiveness in preparing students for successful software interviews, making it a valuable tool for a lifetime of career growth.

## CHAPTER-6

### 6.1. APPENDIX:

<https://images.app.goo.gl/jR5SYFYc4rKi4yiB9>

<https://www.hackerearth.com/>

<https://www.hackerrank.com/>

<https://leetcode.com/>

### 6.2. REFERENCES:

<https://www.hackerrank.com/>

<https://leetcode.com/>

<https://in.linkedin.com/>

<https://www.glassdoor.co.in/index.htm>

<https://cvengineer.io/>

<https://www.indiabix.com/>

### 6.3 SOURCE CODE :

```
def localProperties = new Properties()

def localPropertiesFile = rootProject.file('local.properties')

if (localPropertiesFile.exists()) {

    localPropertiesFile.withReader('UTF-8') { reader ->

        localProperties.load(reader)

    }

}

def flutterRoot = localProperties.getProperty('flutter.sdk')

if (flutterRoot == null) {

    throw new GradleException("Flutter SDK not found. Define location with flutter.sdk in the

    local.properties file.")

}

def flutterVersionCode = localProperties.getProperty('flutter.versionCode')

if (flutterVersionCode == null) {

    flutterVersionCode = '1'

}

def flutterVersionName = localProperties.getProperty('flutter.versionName')

if (flutterVersionName == null) {

    flutterVersionName = '1.0'

}

apply plugin: 'com.android.application'

apply plugin: 'kotlin-android'

apply from: "$flutterRoot/packages/flutter_tools/gradle/flutter.gradle"

def keystoreProperties = new Properties()

def keystorePropertiesFile = rootProject.file('key.properties')

if (keystorePropertiesFile.exists()) {
```

```
    keystoreProperties.load(new FileInputStream(keystorePropertiesFile))
}




android
{
    compileSdkVersion 3
    sourceSets {
        main.java.srcDirs += 'src/main/kotlin'
    }
    lintOptions
    {
        disable 'InvalidPackage'
        checkReleaseBuilds false
    }
    defaultConfig
    {
        applicationId "com.mycompany.careercrafter"
        minSdkVersion 21 targetSdkVersion 33
        versionCode flutterVersionCode.toInteger()
        versionName flutterVersionName
    }
    signingConfigs
    {
        release {
            keyAlias keystoreProperties['keyAlias']
            keyPassword keystoreProperties['keyPassword']
        }
    }
}
```

```
        storeFile keystoreProperties['storeFile'] ? file(keystoreProperties['storeFile']) : null
        storePassword keystoreProperties['storePassword'] }
    }
    buildTypes {
        release {
            // TODO: Add your own signing config for the release build. //
            Signing with the debug keys for now, so flutter run --release works.
            signingConfig signingConfigs.debug
        }
    }
}
flutter {
    source '../..'
}
dependencies
{
    implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:$kotlin_version"
}
```



## CHAPTER-7

### 7.1 TEAM DETAILS :

PHOTO	NAME	DETAILS
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	K.DURGARAM	22H51A6695 <a href="mailto:22h51a6695@cmrcet.ac.in">22h51a6695@cmrcet.ac.in</a> 7780141891

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	J.KRISHNAPRIYA	23H55A6610 <a href="mailto:23h55a6610@cmrcet.ac.in">23h55a6610@cmrcet.ac.in</a> 7981820038

## 7.2 TEAM PHOTO:



