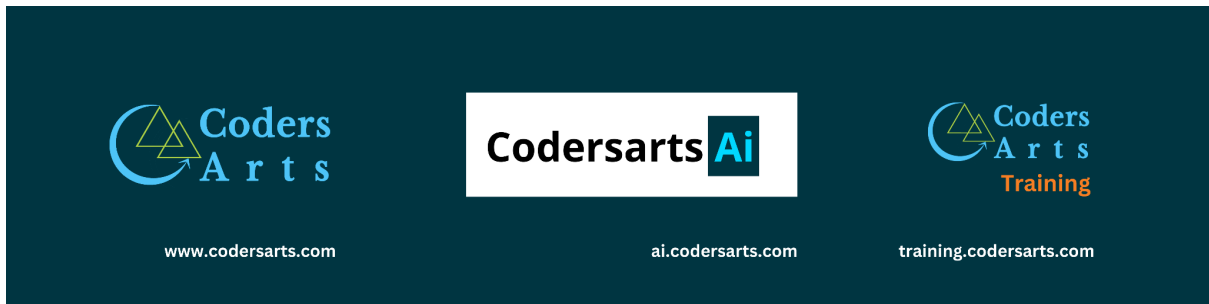


About Codersarts



Codersarts is a trusted and top-rated website for programming help. Get help from vetted **software developers, engineers, ML researchers, and programming experts.**

Codersarts is a leading provider of technology solutions, including software development, programming assistance, and coding tutorials. The company was founded with the goal of democratising technology education and making it accessible to everyone.

Codersarts has a team of experienced and qualified professionals who are passionate about helping people learn and grow. The company offers a variety of services, including:

- **Software development:** Codersarts can help businesses of all sizes to develop custom software solutions. The company's team of experienced developers can work on projects of all sizes and complexity.

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- **Programming assistance:** Codersarts can provide programming assistance to students, professionals, and businesses. The company's team of experts can help with everything from debugging code to writing complex algorithms.
- **Coding tutorials:** Codersarts offers a variety of coding tutorials on a variety of topics. The company's tutorials are designed to help people of all skill levels learn to code.

Codersarts is committed to providing its clients with high-quality services and support. The company has a proven track record of success in helping businesses and individuals to achieve their goals.

About Codersarts AI

Codersarts AI is a division of Codersarts that provides AI development services and machine learning solutions. The company's team of experienced AI experts can help businesses of all sizes to leverage the power of AI to improve their operations, increase efficiency, and gain a competitive edge. Codersarts AI offers a wide range of AI services, including consulting, development, integration, and support. The company is committed to helping businesses succeed in the age of AI.

Codersarts AI offers a wide range of AI services, including:

- **Consulting:** Codersarts AI can help businesses to identify AI opportunities and develop AI strategies.
 - **Development:** Codersarts AI can develop custom AI solutions for businesses, including machine learning models, natural language processing systems, and computer vision systems.
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- **Integration:** Codersarts AI can help businesses to integrate AI solutions into their existing systems and workflows.
- **Support:** Codersarts AI provides ongoing support to businesses to help them get the most out of their AI solutions.

Codersarts AI is committed to helping businesses succeed in the age of AI. The company's team of experts has a deep understanding of AI technologies and a proven track record of success in delivering AI solutions to businesses of all sizes.

About Codersarts Training

Codersarts Training is a division of Codersarts that provides training services on a variety of programming languages and technologies. The company's team of experienced trainers can help individuals and businesses of all sizes to learn new skills and improve their existing skills.

Codersarts Training offers a variety of training courses, including:

- Programming languages: Python, Java, JavaScript, C/C++, etc.
- Web development: HTML, CSS, JavaScript, React, Vue, etc.
- Mobile development: Android, iOS, etc.
- Machine learning
- Data science
- Artificial intelligence

Codersarts Training also offers customized training programs to meet the specific needs of businesses and individuals. Codersarts Training is a trusted provider of high-quality training services. The company has helped thousands of individuals and businesses to learn new skills and achieve their goals.

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If you are interested in learning more about Codersarts Training, please visit the company's website or contact the company's team of experts.

Visit websites:

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Project Title: Moon Bucks

Project Overview:

The "**Coffee Art**" Android application is a creative project designed for the renowned coffee shop "MoonBucks." This app aims to provide customers with a delightful experience by showcasing coffee art created by various artists. Users will be able to scroll through a grid of coffee art icons, each accompanied by the artist's name. Upon clicking a specific artwork, a full-size representation of the coffee art, along with the artist's name, will be displayed. The project emphasizes the design and functionality of the application, allowing for a smooth and enjoyable user experience.

Project Timeline:

1. Project Initiation and UI Design (1 day):

- Create a new Android project with the appropriate package name.
- Design the user interface, including the RecyclerView for displaying coffee art icons.
- Plan the layout and appearance of the grid format.

2. Implement RecyclerView (1/2 days):

- Develop a custom row model for the RecyclerView, consisting of coffee art icons and creators' names.
- Configure the RecyclerView with a grid layout using `LayoutManager`.
- Populate the RecyclerView with coffee art data from the provided images (zip file).
- Ensure proper error handling to prevent application crashes.

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3. Display Full-Size Artwork (1 day):

- Create a navigation graph fragment that will show the full-size representation of the coffee art.
- Implement the transition from the RecyclerView item click to the full-size artwork fragment.
- Display the selected coffee art image in full screen along with the artist's name at the bottom.
- Ensure that the displayed icon and full-size image are identical.

4. Application Icon and Polishing (3 hours):

- Design a launcher icon for the application using the provided coffee icon (zip file).
- Ensure the application stands out with a unique icon and provides a smooth user experience.
- Test the application thoroughly to fix any bugs and improve its performance.

5. Documentation and Submission (1 day):

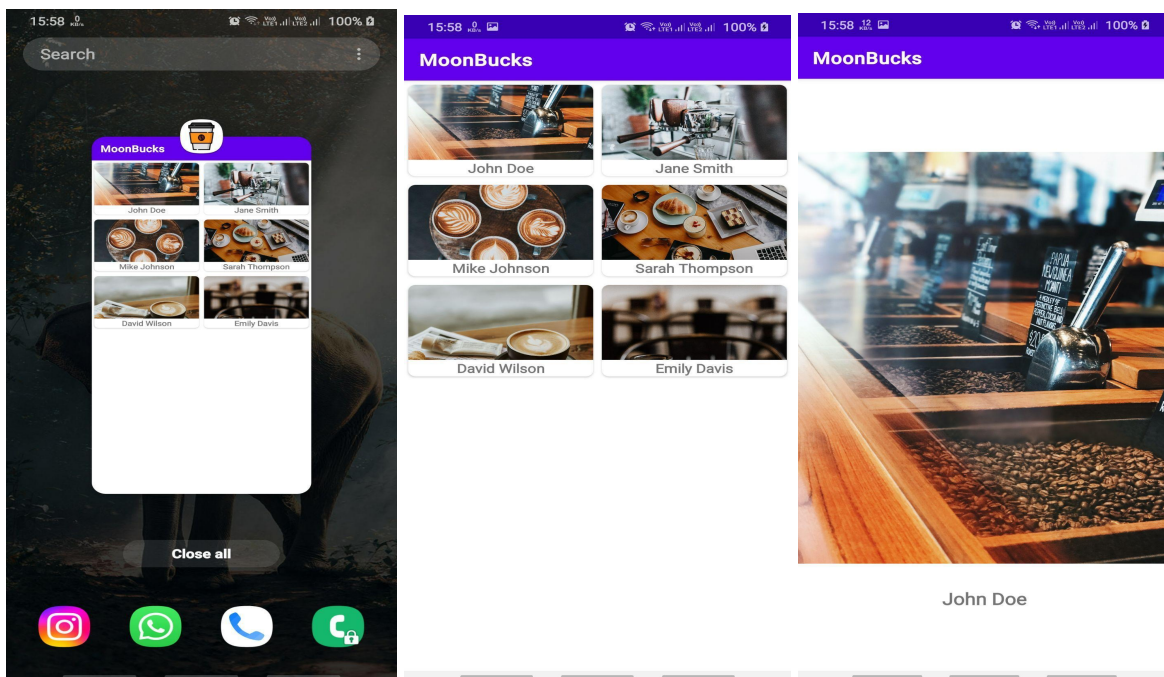
- Create a ZIP file containing the Android Studio project.
- Include multiple screenshots of the application, showcasing each piece of coffee art and the initial RecyclerView displaying the coffee art in a grid format.
- Document any special considerations, design decisions, or issues you encountered during development.
- Export the ZIP file from Android Studio and prepare it for submission.

Technologies Used:

- **Programming Language:** Java or Kotlin for Android app development.
- **UI/UX Design:** Android XML layouts for the user interface, focusing on creating an appealing and user-friendly design.

- **RecyclerView:** Implementing a RecyclerView with a custom row model to display coffee art.
- **Fragments:** Utilizing fragments for the full-size coffee art display.
- **Resource Management:** Properly organizing high-resolution images in the `drawable-v24` folder and other icons/images in the `drawable` folder.
- **Error Handling:** Implementing error handling to prevent application crashes.
- **Android Studio:** Using Android Studio as the primary development environment.

Learning Outcome:



By completing the "Coffee Art" Android application project, you will achieve several learning outcomes:

- **UI/UX Design:** Gain experience in designing user interfaces that are visually appealing and intuitive for a smooth user experience.
- **RecyclerView Implementation:** Learn how to set up and populate a RecyclerView with a custom row model, organising data in a grid format.

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- **Fragment Navigation:** Understand how to navigate between fragments to display different content seamlessly.
- **Resource Management:** Practice organizing and using various resources, including high-resolution images and icons.
- **Error Handling:** Implement robust error handling mechanisms to enhance the app's reliability.
- **Polishing and Testing:** Learn the importance of thoroughly testing and polishing an application to ensure it meets user expectations.
- **Documentation Skills:** Document the project, including design decisions and challenges faced during development, for future reference and collaboration.

Completing this project will provide you with a polished Android application showcasing your creativity and technical skills, making it easily distinguishable on users' devices. The emphasis on user experience and design will contribute to your overall Android development expertise.

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