



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment1.1

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Branch: CSE

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Subject Name: Mobile App Development

UID: 21BCS1569

Section/Group: 606/B

Date of Performance: 12/01/24

Subject Code: 21CSH-355

1. **Aim:** Installation and configuration of Android Studio.

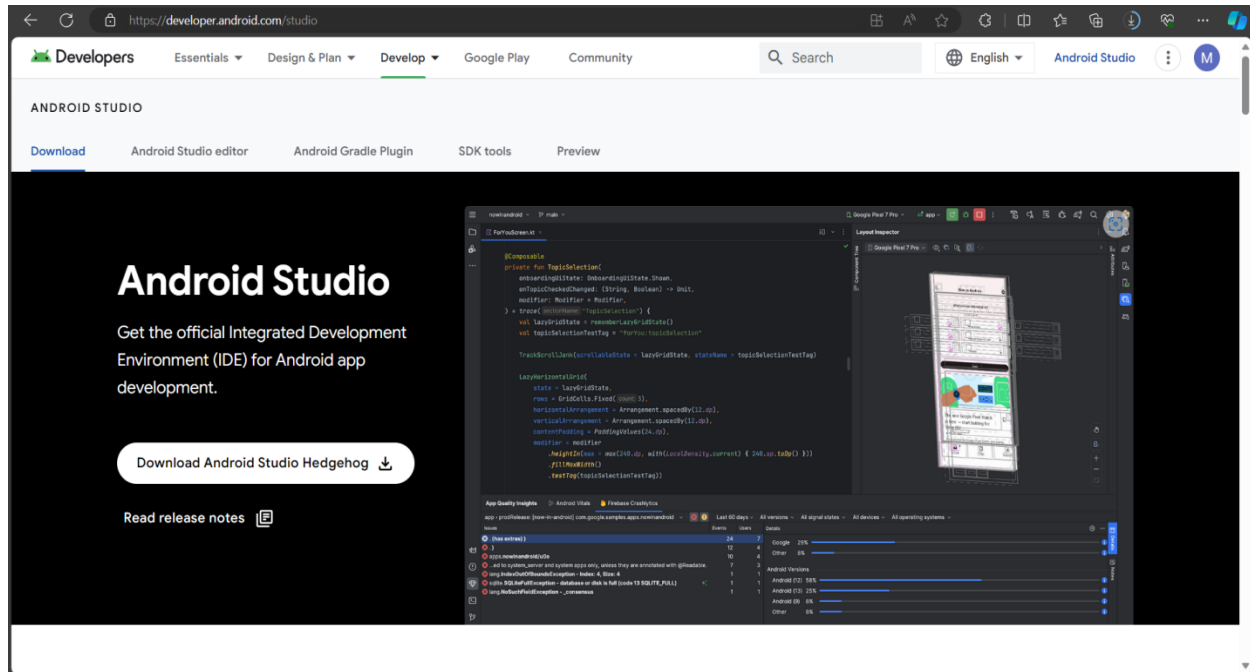
2. **Objective:** The objective of installing and configuring Android Studio is to set up a development environment for creating Android applications. The process involves installing the necessary tools and components, configuring the development environment, and preparing the IDE for efficient Android app development.

3. **Input/Apparatus Used:**
 - **Computer:** Android Studio is compatible with Windows, macOS, and Linux. Ensure that your computer meets the minimum system requirements for the chosen operating system.
 - **Internet Connection:** A reliable internet connection is required to download Android Studio and the necessary SDK components during the installation process.
 - **Android Studio Installer:** Download the Android Studio installer from the official Android Studio Page (<https://developer.android.com/studio>). Choose the appropriate version for your operating system.
 - **Storage Space:** Ensure sufficient free storage space on your computer to accommodate the Android Studio installation and any additional SDK components you may download.

4. **Procedure:**

Step 1: Download and Install Android Studio

1. Open your web browser and navigate to the official Android Studio website at <https://developer.android.com/studio>.



2. Click on the "Download Android Studio" button. Ensure your operating system is detected correctly (Windows, macOS, or Linux).

☒ I have read and agree with the above terms and conditions

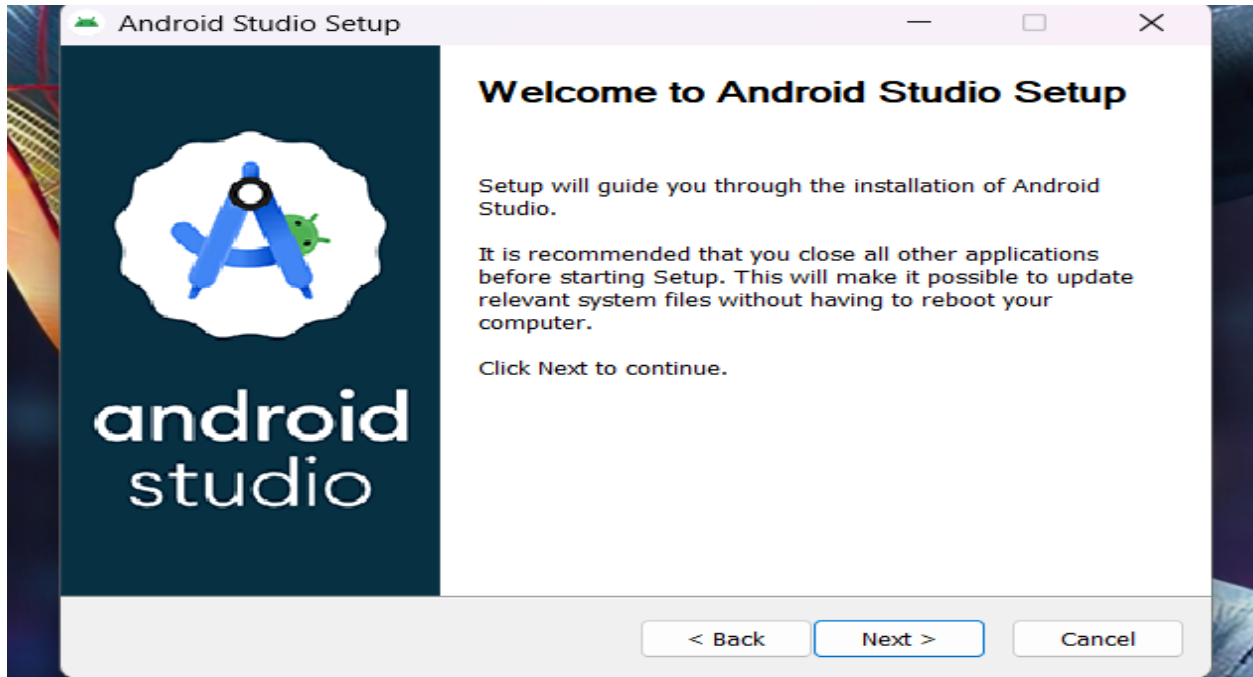
Download Android Studio Hedgehog | 2023.1.1 Patch 1 for Windows

android-studio-2023.1.1.27-windows.exe

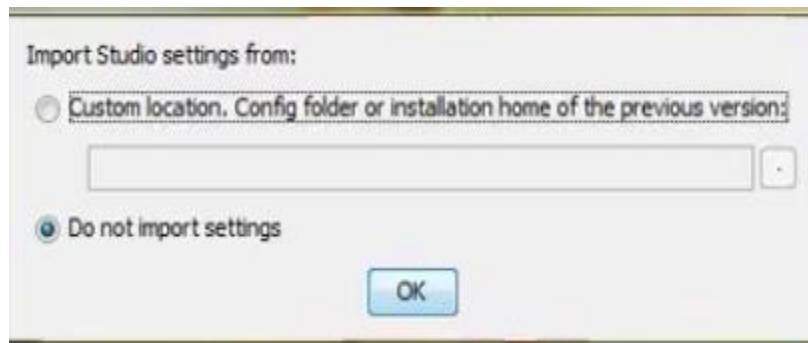
Click "Download" to initiate the download of the Android Studio setup file.

3. Locate the downloaded setup file (e.g., android-studio-ide-version.xxx.-windows.exe for Windows) and double-click to run it. Follow the on-screen instructions to begin the installation process.

Choose the installation location and preferences as needed.

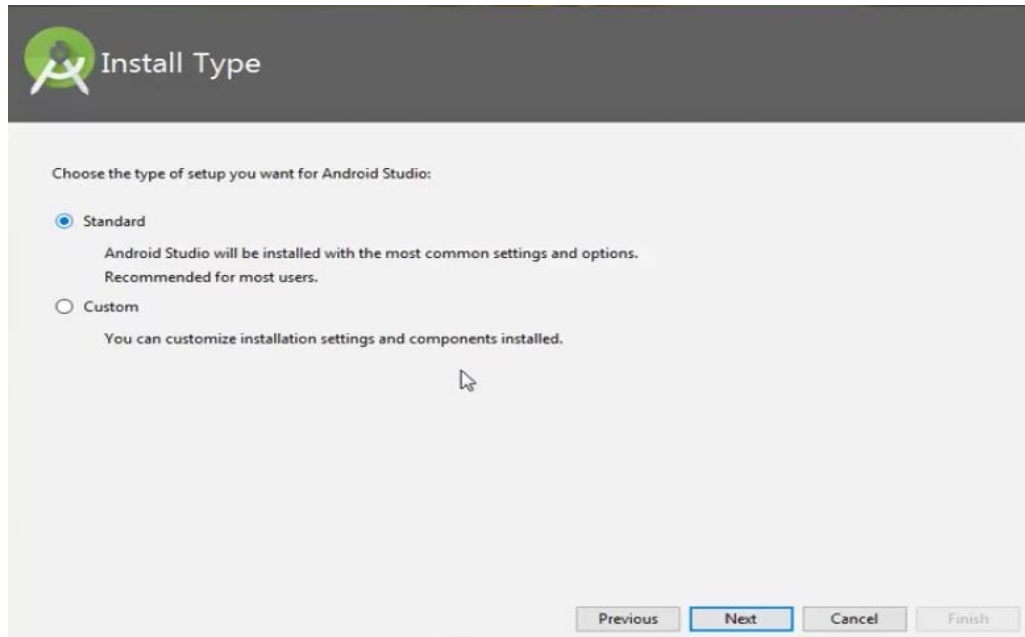


4. During installation, you'll be prompted to select components. Ensure that "Android Virtual Device (AVD)" and the necessary SDK components are selected. Click "Next" to proceed.

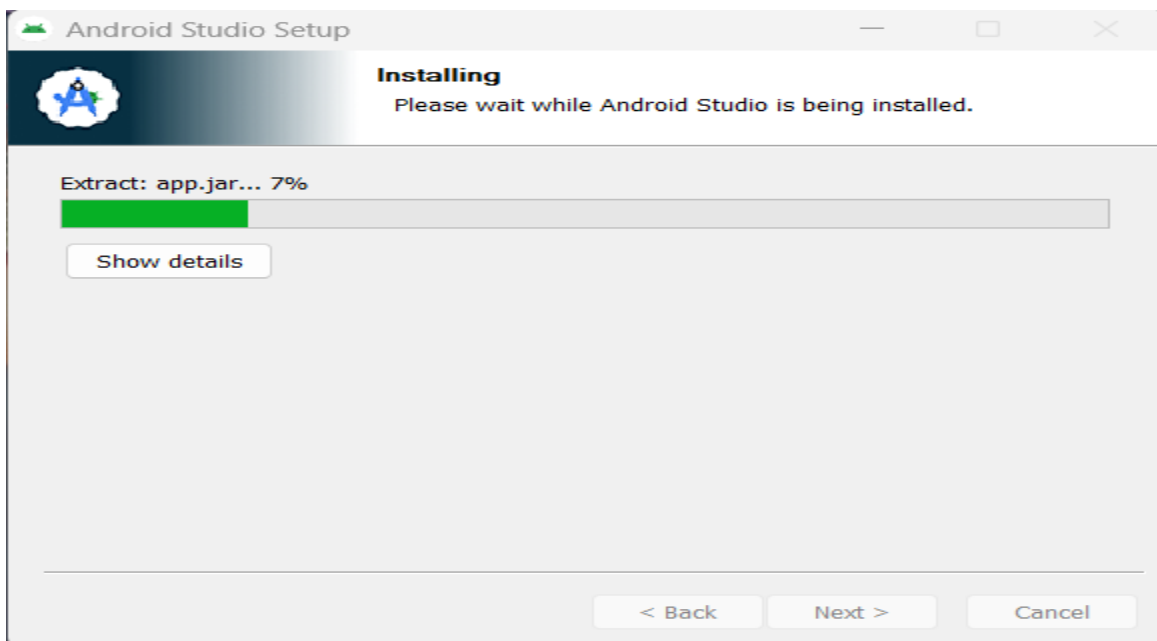


5. Read and accept the terms and conditions of the Android Studio and Android SDK licenses. Click "Next" to continue.

6. Select the folder where you want Android Studio to create shortcuts in the Start Menu. Click "Install" to begin the installation process.



7. Wait for the installation to finish. This may take some time as it involves downloading additional components.



Once completed, click "Next" and then "Finish" to exit the installer.

Step 2: Launch and Configure Android Studio

1. Open Android Studio:

Locate the Android Studio shortcut on your desktop or Start Menu and open the IDE.

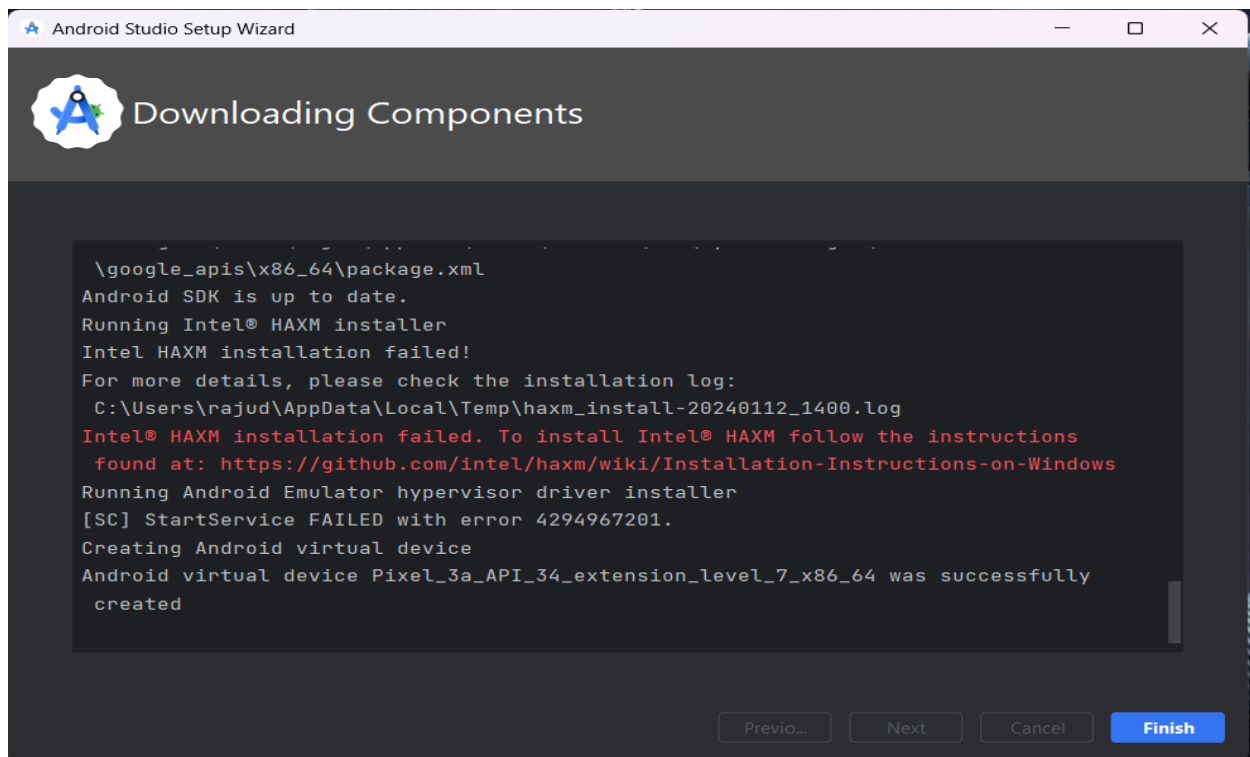
2. Set Up Android Studio:

When Android Studio opens, it may prompt you to import settings from a previous version. Choose the appropriate option based on your situation.

On the "Welcome to Android Studio" window, click "Configure" and select "SDK Manager."

3. Configure the Android SDK:

In the SDK Manager, ensure that the necessary Android SDK components are installed. This includes API levels and system images for testing.



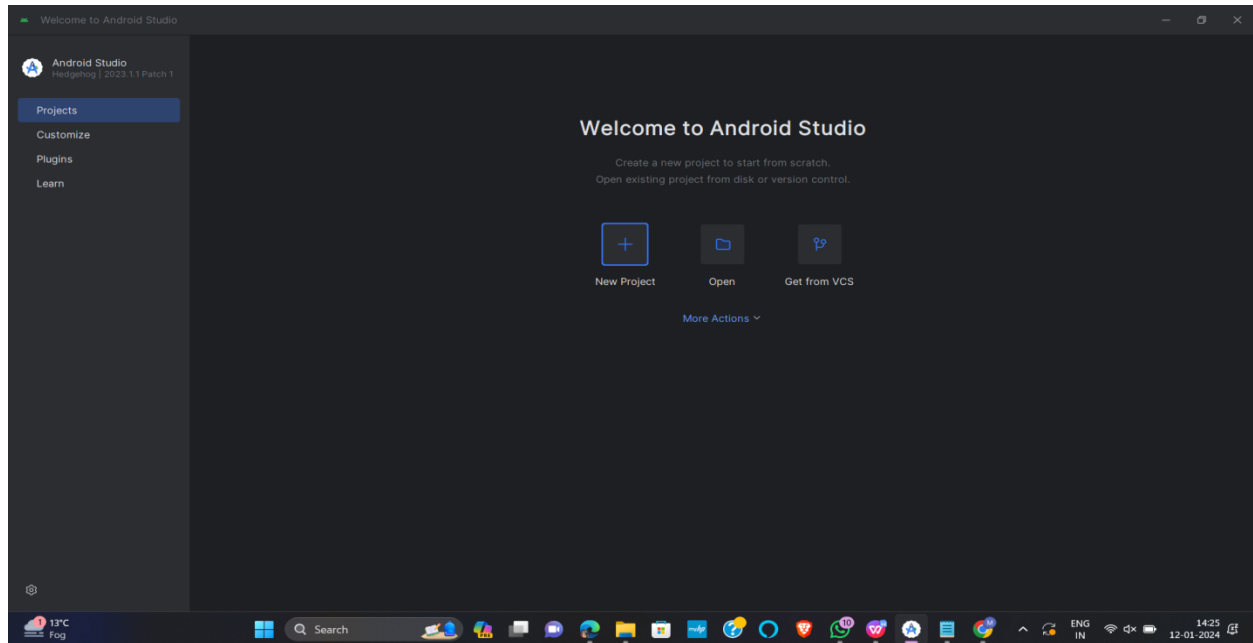
Click "Finish" to confirm and download any selected components.

4. Return to the "Welcome to Android Studio" window and click "Configure" again, but this time select "AVD Manager." Create a new Virtual Device by following the prompts. Choose a device profile and system image for the emulator.

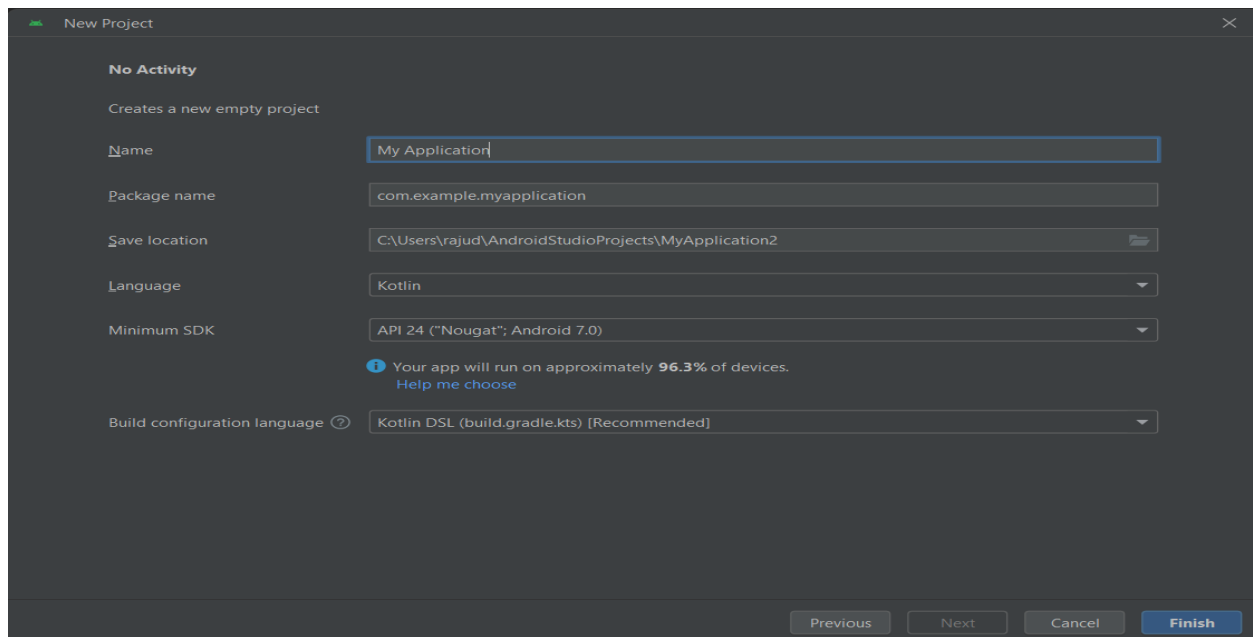


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5. Create a new project or open a sample project to ensure Android Studio is configured correctly.





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5. Learning Outcomes:

1. I have learned the process of installing Android Studio, a tool for Android app development.
2. I understand the importance of configuring SDKs and virtual devices for a smooth development environment.
3. I now understand the significance of testing applications on a virtual device, ensuring a well-prepared development setup.