# Prerequisite

**Minimum System requirements:**

- 4 GB RAM
- 10 GB Available Storage.

**Software/Applications required:**

1. Install Java 11 (Skip if any higher version is installed) –
   - Download java - www.oracle.com/in/java/technologies/javase/jdk11-archive-downloads.html
   - Installation Process - www.java.com/en/download/help/windows_manual_download.html
   - Verify Java is installed - Open Command Prompt, type command **java -version**
   - Set JAVA_HOME Environment Variables –
     docs.oracle.com/cd/E19182-01/821-0917/inst_jdk_javahome_t/index.html

   Additional references –
   - www.youtube.com/watch?v=SQykK40fFds – Windows
   - www.youtube.com/watch?v=RfIiBMJqvp8 – Mac

2. Install Node –
   - Download Node - nodejs.org/en/download
   - Installation - nodejs.org/en/download/package-manager#windows-1

   Additional references – Node.js and npm: Install Node.js and npm (Node Package Manager) to manage dependencies and run scripts.

   - www.youtube.com/watch?v=EIzdQxMXcrc – Windows
   - www.youtube.com/watch?v=SwUKKCS3r3c - Mac

3. Java IDE – IntelliJ IDEA or Eclipse(any one)
   - Download IntelliJ IDEA– www.jetbrains.com/edu-products/download/other-IIE.html
   - Download Eclipse - www.eclipse.org/downloads/packages

4. ReactJS Code Editor - Visual Studio Code
   - Download VSCode - code.visualstudio.com/download

   Additional references
   - www.youtube.com/watch?v=bN6DE-4uFNo - Mac and Windows

5. Version Control – GitHub account created for all users
   - www.youtube.com/watch?v=2j7fD92g-gE – Windows
   - www.youtube.com/watch?v=ZM3I16Z-lxI – Mac

6. Postman – Signup on www.postman.com or download and install application for testing API's
   - www.postman.com/downloads - Mac/Windows

7. Online SQL  - check access to www.freesqldatabase.com, a web based service to SQL database.

# UI

1. Programming Skills: Basic understanding of HTML, CSS.

2. React Fundamentals: Good to have knowledge

3. Node.js and npm: Install Node.js and npm (Node Package Manager) to manage dependencies and run scripts.

4. Version Control: Knowledge of using Git for version control to manage code changes.

# Backend

1. Java Programming: Basic knowledge in Java, including object-oriented programming concepts.

2. Database Concepts: Basic understanding of relational databases, SQL, and basic database design.