

IT-314: Software Engineering

Software Requirements Specifications

Group -14

Social Media Platform

Unit testing

Intoduction:

This document provides an overview of the unit testing conducted for the project using Jest and earlyAl. It covers both back-end testing and details related to coverage, methodology, and the benefits derived from the testing process.

Tools and Frameword:

Jest: A JavaScript testing framework created to verify the accuracy and reliability of codebases.

White-box testing:

White-box testing is a software testing method that involves examining the internal structure, design, and implementation of the code. Testers have access to the source code and focus on verifying the logic, flow, and functionality of the system.

Why unit testing is essential:

- Improved Code Quality: Promotes the development of clean, modular, and easy-to-maintain code.
- Early Issue Identification: Detects problems at an early stage, reducing their impact on the overall project.

Unit testing for Backend:

Overall test cases:



All test cases passed: