Experiment: Validation of AI-Generated Requirements

Participants: Student groups from a Software Engineering course

Objective: To validate the quality and usefulness of software requirements generated by AI by comparing them with requirements identified manually by students.

Proposed Software: UniRoomShare is an application that allows you to request accommodation in a university city other than the one where you study, with other students. Each stay cannot exceed 7 nights. Students register on the app using their official university email address to certify that they are indeed university students. No money is exchanged; students receive a certain number of free points when they register on the app, spend points when they use a room, and earn points when they let their room be used. A student offering a room or a couch in the living room must publish some pictures, the periods of availability, the address and the number of points per night. Different charges may apply depending on whether sheets and towels are provided or not. For each stay, UniRoomShare gets 10% of the points "paid" by a student. Students can buy points by UniRoomShare but they can not sell them, only use the earned points for a stay. Both hosts and guests can leave feedback.

PHASE 1: Requirements Identification

1.1) Requirements Identified by Students - Italy and Brasil

- Each student group analyzes the proposed software and identifies a set of requirements.
- **Output**: One set of **manually identified requirements per group (THE GROUP CANNOT USE LLM FOR THIS TASK).**