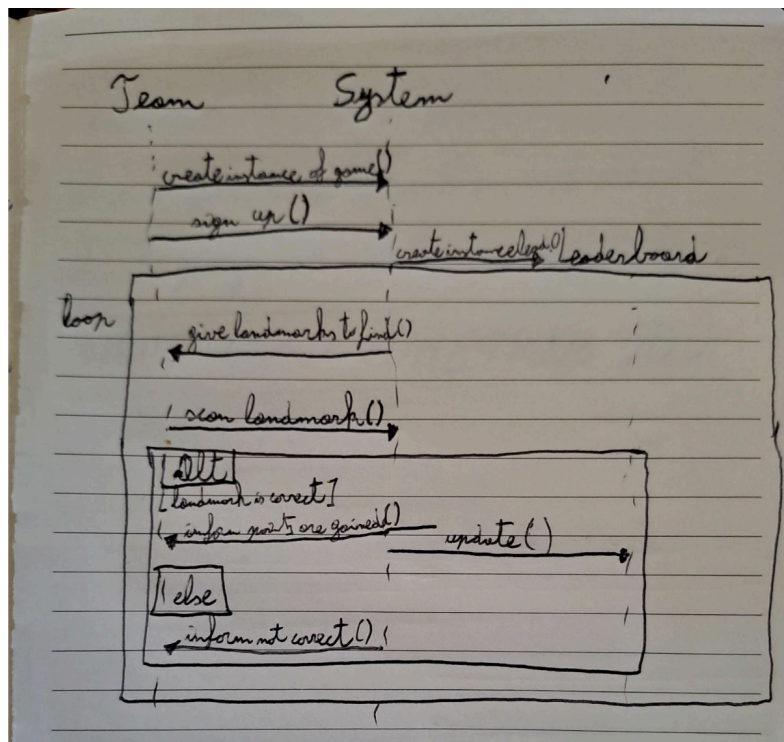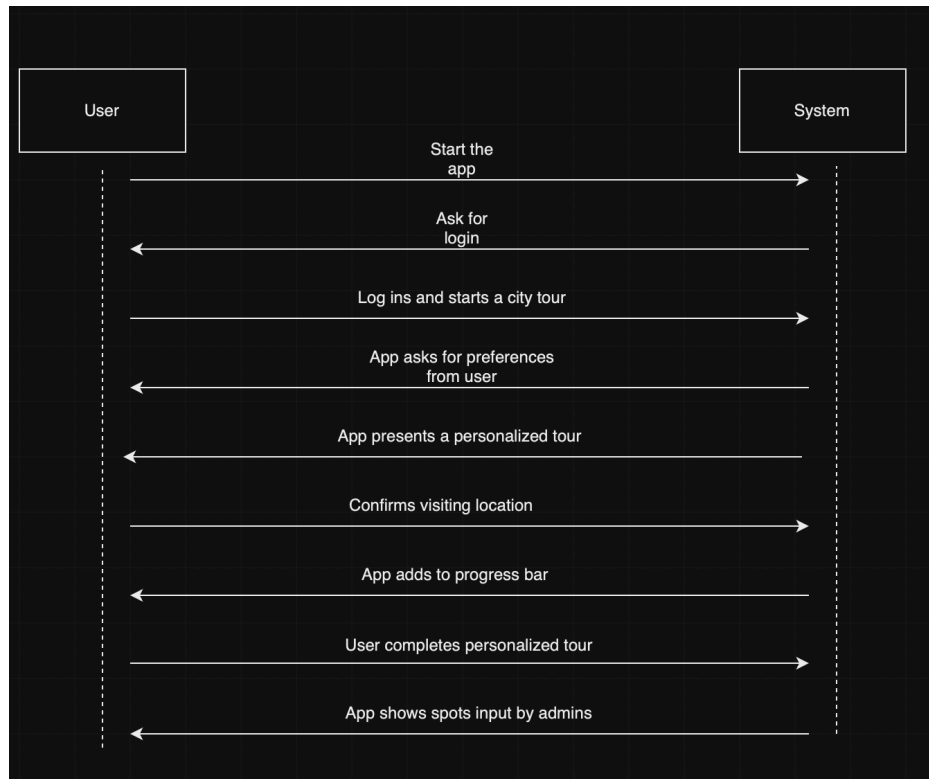# Operation contract and SSD

SSD #1

SSD #2

Operation Contract for "Team finds a landmark":
Operation: create instance of game()
Cross References:
Pre-conditions: teams must be made and every team must have a phone to log in the system
Post-conditions: an instance of the game is created and the system starts loading up the data(AR, landmarks, quizzes etc.)

Operation: sign up()
Cross References:
Pre-conditions: teams must be formed and a team leader must have a phone and be on the app of the system Post-conditions: the team leader will sign up the names of his team members and every other team leader will do the same

Operation: create instance leaderboard()
Cross References:
Pre-conditions: all team leaders must have signed up with their teams
Post-conditions: the system will create a temporary leaderboard, this moment signs the start of the scavenger hunt

Operation: give landmark to find()
Cross References:
Pre-conditions: the scavenger hunt must be ongoing and the teams must be signed in ina temporary leaderboard Post-conditions: the system will give a landmark to find to the team, this will consist in either a quiz, scanning of an environment or quote to insert etc.

Operation: scan landmark()
Cross References:
Pre-conditions: the scavengers will have chosen a challenge to complete and the system is expecting an input Post-conditions: the scavengers insert an "answer" into the system and the system will start analyzing it to see if it matches the real answer key of that challenge

Operation: inform points are gained()
Cross References:
Pre-conditions: the scavengers must have taken a challenge and the system must be waiting for an answer. Said answer is given and the system recognizes that it is correct Post-conditions: the system will inform the team that they have gained points for the correct answer to the challenge

Operation: update()

Cross References:

Pre-conditions: the answer to the challenge given to a team must have been correct

Post-conditions: the leaderboard will be updated in real time and the other scavenger teams will receive a notification of the fact that a team has completed a challenge

Operation: inform not correct()

Cross References:

Pre-conditions: the team has inserted an answer to the challenge given by the system but the answer is not correct Post-conditions: the scavengers are informed of the bad answer and points are not added to the leaderboard