

Dividing group into Stakeholder/Users and System Analyst:

- Groups 1: System Analyst: Aly Hassan.
- Group 2: Stakeholders/Users: Mohamed Ehab, Alaa Shaaban, Kenzy Zedan, Youssef Osama.

Stakeholders will be divided into five groups:

- Students/Faculty Members (Mohamed Ehab)
- IT Department/ Security Department (Alaa Shaaban)
- Garage Administrators / Staff (Youssef Osama)
- University/ Management (Kenzy Zedan)
- Maintenance & Sensor Provider Team (Outsourced Company)

Assumptions:

- Mohamed Ehab is graduating. He is currently a fourth year CIS student, however also a junior teacher assistant therefore representing both categories “Students” and “Faculty Members”
- Kenzy Zedan is the head of “Security department” team in the “IT Department”.
- Youssef Osama is the “Garage Admin”, however also sometimes does operational work in the garage making him also “Staff”
- Alaa Shaaban is the acting president of EUI

Interview notes taken by the secretary, which will conclude the user story:

ID	Interviewing:	Response: “As a <role>, I want to <goal>, so that <benefit>”
UC1	Mohamed Ehab	As a student, I want to check parking spot availability before arriving so that I save time and avoid crowd.
UC2	Mohamed Ehab	As a junior TA (Faculty member) I want to request car services (cleaning, EV charging) so that I can manage my needs conveniently.
UC3	Kenzy Zedan	As a security head, I want all data communications to be encrypted so that the system remains protected from cyber threats.
UC4	Kenzy Zedan	As a security head, I want only authenticated users and admins to access the dashboard so that unauthorized access is prevented
UC5	Youssef Osama	As a garage admin, I want to manage vehicle registrations so that only verified users can access the garage.
UC6	Youssef Osama	As also a garage staff (sometimes) I want vehicle entries, exits, and service actions to be automatically logged so that the system keeps records.
UC7	Alaa Shaaban	As the university president, I want automated reports summarizing garage usage so that I can make data-driven decisions.
UC8	Alaa Shaaban	As the university president, I want to receive periodic system performance and reliability reports so that I can ensure the garage operates efficiently and meets university quality standards.

Here is a breakdown, verifying that the user stories are good and effective:

ID	Given When Then - INVEST
UC1	<p>Given I am logged into the system When I request real-time parking status Then I should see the number of available and occupied spots.</p> <p>Quality Check (INVEST): Valuable, Testable, Small, Clear</p>
UC2	<p>Given I am logged in When I open the “Services” menu Then I should be able to request car cleaning or EV charging.</p> <p>Quality Check: INVEST ✓</p>
UC3	<p>Given that the system is running When data is transmitted Then it must use secure encryption</p> <p>Quality Check: INVEST ✓</p>
UC4	<p>Given a user accesses the login page When they enter valid credentials Then they should be granted dashboard access.</p> <p>Quality Check: INVEST ✓</p>
UC5	<p>Given a user submits a new vehicle When I verify the details Then the vehicle should be marked as “approved.”</p> <p>Quality Check: INVEST ✓</p>
UC6	<p>Given a vehicle enters or exits When its license plate is scanned Then a timestamped log entry is created.</p> <p>Quality Check: INVEST ✓</p>
UC7	<p>Given it is the end of the day/week/month When reports are generated Then they should include total entries, exits, peak hours, and service statistics.</p> <p>Quality Check: INVEST ✓</p>
UC8	<p>Given the president logs into the reporting dashboard When they select a reporting period Then the system should display historical performance and reliability reports and allow export.</p> <p>Quality Check: INVEST ✓</p>