

**Palestine Technical University – Kadoorie**

**College of Engineering and Technology**

**Department of Computer Systems Engineering**

**Course name:**

**Software Engineering**

**Project title:**

**DESIGNING A USER-FRIENDLY CAR RENTAL SERVICE WEBSITE FOR CONVENIENT VEHICLE BOOKING IN PALESTINE**

**By:**

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**Tulkarm, Palestine**

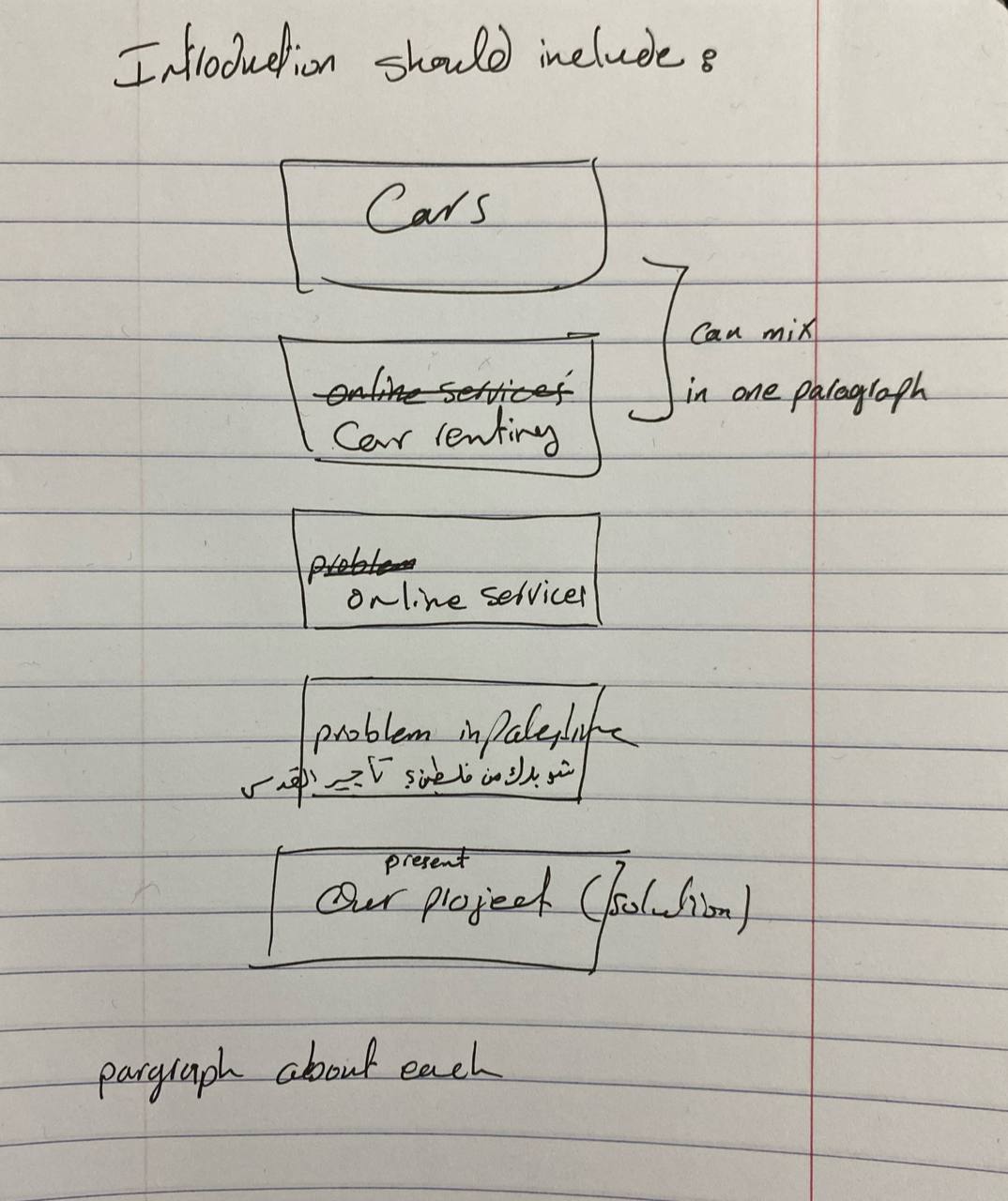
**Spring Semester 2023-2024**

**Abstract:**

The process of renting a vehicle in Palestine often encounters various difficulties. This project aims to introduce a user-friendly website designed to streamline the booking process, enabling users to easily rent a vehicle through their devices. By merely selecting the rental duration, pick-up date, and desired vehicle, customers can complete their bookings in just a few clicks. The anticipated outcome of this website's development and launch is a notable increase in user engagement, attributed to its simplification of the car rental process, thereby offering a significantly more convenient solution for users.

**Introduction:**

Cars represent a valuable real asset that most individuals use on a daily basis (Brulé et al., 2022). They serve not only as means of transportation but also as tools for personal freedom, allowing for the exploration of new places and the facilitation of essential activities. Purchasing a vehicle represents a significant financial commitment, yet there are moments when the need for personal transportation becomes urgent. Car rentals offer a practical solution, providing access to vehicles on an as-needed basis without the long-term financial commitment of ownership.



//Picture is based on our meeting, to keep track of what’s left to write for the introduction (please leave it until we include it all, we may delete the picture and this comment afterwards)

**Objective:**

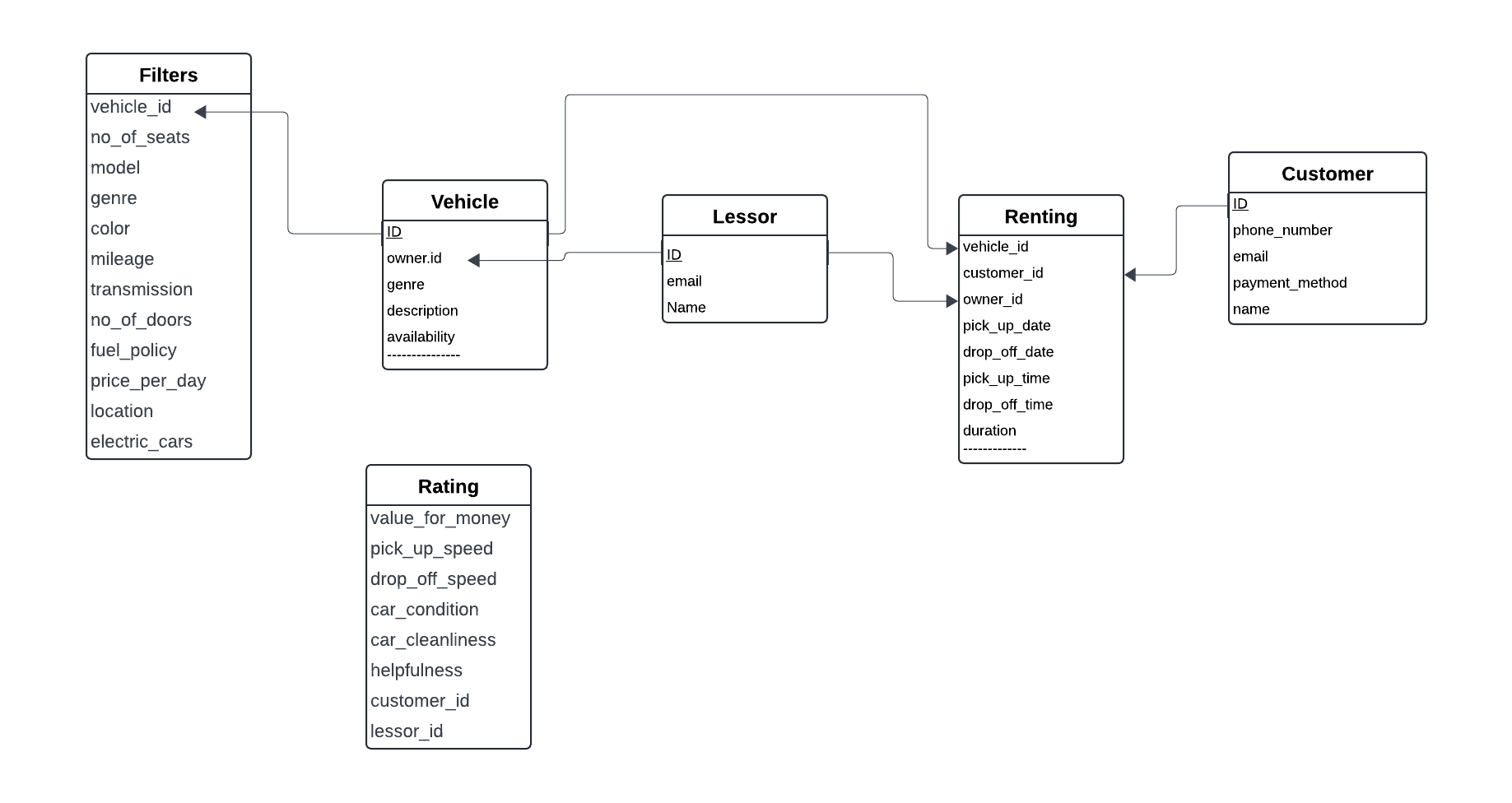
The main goal of the project is to transfer the car rental process from its traditional way into an online platform by designing a user-friendly car rental service website in Palestine. Other objectives can be summarized as follows:

1. To offer an around-the-clock online platform enabling users to effortlessly search for, compare, and book vehicles.
2. To implement advanced filtering options, allowing users to refine their searches based on specific criteria such as car type, rental price, and additional features, thus facilitating a tailored rental experience.
3. To integrate a seamless booking and payment system that ensures a secure and efficient transaction process, coupled with immediate confirmation and digital documentation for users.
4. To aspire the contribution of the broader development of digital services in Palestine.

**System Description:**

**Services:**

**ER Diagram:**



**Project Timeline:**

We are supposed to start working on this by the beginning of the Spring 2024 semester and finish it by the end of the semester. The proposed project timeline shown in Table 1 serves as a guide to follow during the period of accomplishing this task and who’s responsibility it is to do so. The project timeline is flexible to accommodate for any changes or surprises in the schedule. The suggested timeline of the project will be updated as the further the group progresses in time and the picture becomes clearer.

Table 1: The proposed timeline of the project

|  |  |  |
| --- | --- | --- |
| **Week no.** | **Tasks** | **Task Responsibility** |
| 1 – 6 | System analysis, website designing and implementation research, and gathering data | Cooperative |
| 6 – 11 | Designing and implementing the website | Cooperative but mainly **Layla** |
| 11 – 12 | Testing the system and trouble-shooting process | Cooperative but mainly **Rahaf** |
| 12 – 13 | Writing and proofreading the SRS document | Cooperative but mainly **Afnan** |
| 13 – 14 | Defending | Cooperative |

**References:**

* https://slcc.pressbooks.pub/technicalwritingatslcc/chapter/abstractengineer/ .
* SOFTWARE ENGINEERING Ninth Edition, Ian Sommerville.
* Brulé, G., Ravazzini, L. & Suter, C. The Rolling 50s (and More): Cars and Life Satisfaction Among Seniors Across Europe. *Applied Research Quality Life* **17**, 185–204 (2022). Retrieved from: <https://link.springer.com/article/10.1007/s11482-020-09887-2>