



SYSTEM ANALYSIS AND DESIGN
PROJECT FOR
CAR PARKING LOT RENTAL AND MANAGEMENT
SYSTEM

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Submitted to

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Section 1

Introduction:

There are more than 163 million people living in Bangladesh. New cars are being purchased daily. However, the number of parking lot spots is not rising at the same rate as the number of new cars. Numerous individuals encounter

daily struggle to find a parking lot spot. Furthermore, a major contributing factor to severe traffic jams is a scarcity of parking lot spots, as drivers often leave their cars parked in the middle of the road. Even in the age of technology, we still have to use the manual method to locate a parking lot spot. Finding a parking lot spot is a very difficult task; it takes a lot of time and requires the seeker to haggle with the owner of the space multiple times. Our latest online tool will address this.

problem, whereby drivers can locate a parking lot spot more quickly and parking space owners can rent out their spaces with ease.

History Leading To Project Request

Urban Traffic Congestion and Unauthorized Parking: Over the years, urban roads and key thoroughfares have become increasingly congested, posing significant challenges to the unhindered movement of vehicles. This perpetual traffic gridlock can, in part, be attributed to rampant and unsanctioned parking practices within metropolitan cities. The situation has worsened over time due to the absence of adequate parking spaces and lax enforcement of traffic regulations. This predicament has caused considerable distress to pedestrians and motorists.

Inadequacy of Parking Lot Facilities: A recent report by RAJUK (Rajdhani Unnayan Kartripakkha) underscored the fact that existing parking lot facilities in the capital city were grossly inadequate to meet the escalating demand. The combined parking spaces owned by RAJUK and Dhaka city corporations could accommodate only 1,474 vehicles, a paltry number in the context of a densely populated urban environment. Transportation experts consistently emphasized that the absence of vigilant monitoring and the underdevelopment of parking infrastructure were pivotal factors contributing to the alarming issue of unauthorized parking.

Plight of Vehicle Owners: Among those most significantly affected by this parking crisis are vehicle owners. Often left with no viable alternatives, they resort to parking their vehicles on open streets, further contributing to the problem of traffic gridlock. This not only inconveniences other road users but also leads to an escalation in parking tickets, and even more direly, exposes vehicles to the risk of theft. Shockingly, recent statistics reveal that in the past three months, 102 cars were reported stolen, underscoring the grave concerns of car theft in the city.

Vision for the Car Parking lot Space Rental System: In response to these pressing challenges, the project request envisions the development of a comprehensive "Car Parking lot Space Rental System." This solution seeks to streamline the process of renting parking lot spaces, offering significant advantages to both parking space owners and vehicle owners alike. The central tenets of this vision include:

- **Advertisement of Parking Spaces:** Parking lot space owners will have the capability to create advertisements for their available spaces, complete with all requisite information.
- **User-Friendly Search:** Users seeking parking lot spaces can effortlessly locate available options based on their current location, accompanied by images and detailed descriptions.
- **Transparent Pricing:** The system will provide full visibility into the hourly or monthly charges for each parking lot space, ensuring absolute transparency for users.
- **Efficient Booking:** Once a user identifies a suitable parking lot space, they can seamlessly contact the owner and proceed to book it on an hourly or monthly rate basis.

- **Streamlined Payment:** The system will facilitate the payment process, guaranteeing prompt remittance of rental fees to parking lot space owners.

This project request stands as a vital stride toward alleviating the parking and traffic-related challenges experienced within metropolitan areas. The aim is to enhance the convenience and security of car parking by making the process of finding and renting parking lot spaces more efficient, ultimately saving time and reducing the stress experienced by both users and parking lot space owners in the "Car Parking Lot Rental and Management System."

Identify Problem, Solutions & Opportunities

Identify problem:

Finding available parking lot spots can be quite tough, and it takes a lot of time and effort. You also end up spending more on gas while searching for an open rental parking lot spot. Getting a free parking space often means you have to talk to the parking lot owner, which makes the whole process more time-consuming. Agreeing on a monthly parking fee with the owner can sometimes lead to arguments.

Making deals for parking lot spaces using just spoken words can lead to confusion and no proper legal proof. This can cause problems later on, like payment disputes where owners might complain about late or missed payments.

Security is a big concern at parking spaces, with thefts and other illegal activities being pretty common. Sometimes, criminals pretend to be looking for parking and then commit crimes in the parking area.

The lack of an organized system for managing parking and rentals can lead to inefficiencies and make it hard to match available parking with people who need it. This can result in wasted time and frustrations for everyone.

When there's no central system to keep track of parking agreements, it becomes difficult to make sure everything is fair and clear between parking lot space owners and renters. This can lead to arguments and disagreements.

Solutions:

Convenient Renting Space Location: The system allows users to easily locate vacant renting spaces and rent them within a short time, eliminating the need for physical visits or separate bookings.

Cloud-Based and Online Operation: The technology is cloud-based and operates online, providing users the flexibility to find renting spaces from the comfort of their homes or on the go, reducing additional hassles.

Efficient Search Functionality: Users can quickly find suitable renting spaces by searching based on location or hourly/monthly pricing, saving them time and effort.

Comprehensive Space Details: Users can conveniently access detailed information about each renting space, including hourly or monthly rates, photos, and other relevant details, streamlining the decision-making process.

Data Integrity: All information and agreements shared by parking lot space owners are securely stored in the system's database, reducing the possibility of misunderstandings or disputes in the future.

Advanced Payment Processing: Renters are required to pay in advance to book or rent a parking lot space, reducing the likelihood of payment errors and ensuring a smooth transaction process.

Enhanced Security: The system's record-keeping and database ensure that any criminal activities or disputes are quickly addressed, allowing for swift resolution and legal actions if necessary.

Comprehensive Renting Solution: This system offers a comprehensive solution to various challenges encountered during the search for renting spaces, simplifying the entire process for users.

User Reviews and Ratings: Implement a feature that allows users to leave reviews and ratings for renting spaces they have rented. This can help future users make informed decisions and improve the trustworthiness of the system.

Opportunities:

Customization and Personalization: Tailoring the system to individual user preferences can enhance the user experience. By analyzing user data, the platform can recommend specific vehicle options, travel packages, and route suggestions, creating a more personalized and engaging experience that encourages customer loyalty and repeat business.

Mobile App Development: Developing a user-friendly mobile app provides an opportunity to meet users where they are. Many people rely on mobile devices for travel-related tasks, so a dedicated app allows for quick and convenient booking, navigation to parking spaces, and real-time updates, increasing user engagement and satisfaction.

Sustainable Practices: Implementing eco-friendly driving incentives and features, such as suggesting routes that minimize fuel consumption and emissions or offering electric vehicle rentals, aligns with the growing demand for sustainable transportation solutions. This not only caters to environmentally conscious users but also positions the platform as an advocate for responsible and green travel, creating a unique selling point and contributing to a positive brand image.

Dynamic Pricing Models: Implement dynamic pricing strategies to capitalize on peak demand periods or promote off-peak usage. Variable pricing based on factors like location, time of day, and vehicle type can optimize revenue generation.

Fleet Expansion and Variety: An opportunity exists to expand the fleet by adding a variety of vehicle types, from compact cars to luxury options and even electric vehicles. This diversification can cater to a broader range of customer preferences and needs.

Geographic Expansion: Consider expanding the service to new geographic locations and cities. As urbanization continues, there are opportunities to tap into emerging markets and gain a competitive edge.

Product Name: CarParkingLotRental.com(Car Parking Lot Rental)

Project goal:

The goal of the Car Parking Lot Rental Management System project is to develop a reliable software program that will simplify the process of renting a car. Customers will have a convenient platform to look for available cars, make reservations, and communicate with car rental service providers thanks to this comprehensive system. Develop a streamlined system for efficient vehicle rental that allows customers to easily rent and return vehicles. This system will feature a user-friendly interface for booking, secure payment processing, and simplified document submission. Simultaneously, create a comprehensive customer management database to enhance customer service by managing client information, rental history, preferences, and feedback. Additionally, the system seeks to give car parking lot rental companies with reporting and analytics tools while assuring the highest level of security through encryption ensuring accessibility for a diverse user base, providing scalability for future expansion, implementing security and authentication mechanisms, and abiding by legal and regulatory obligations. This system, which is customized for car rentals as opposed to the parking lot spot rental project, may also contain features of negotiation and commercial agreements, giving it a complete option for effectively managing the automotive rental process.

Project objectives:

The functionality that the system would have are described below

1. **Efficient Vehicle Rental:** Develop a system that enables customers to easily rent and return vehicles, including a user-friendly interface for booking, payment and document submission.
2. **Customer Management:** Create a customer database to manage client information, rental history, preferences and feedback for improved customer service.
3. **Inventory Control:** Monitor and manage vehicle inventory to ensure appropriate levels of available vehicles and make data-driven decisions regarding the addition or removal of vehicles from the fleet.
4. **Maintenance Tracking:** Establishing a maintenance scheduling and tracking system to ensure all vehicles are regularly serviced, inspected and repaired, reducing breakdowns and improving safety.
5. **Billing and Payment:** Enable efficient and secure billing and payment processing, including options for various payment methods and automated invoicing.
6. **User Authentication and Security:** Implement robust security measures to protect customer data, financial transactions and prevent unauthorized access.
7. **Integration:** Ensure compatibility and integration with third party systems such as insurance providers, GPS services and government databases for license and registration validation.

8. **Scalability:** Build the system in a way that allows for future expansion and growth of the business, accommodating more vehicles, branches and customers.
9. **Customer Support:** Develop customer support features, including chat support, FAQs and help documentation, to address customer inquiries and issues promptly.
10. **Feedback and Improvement:** Establish a feedback mechanism for customers to provide input on their rental experience and make ongoing improvements based on this feedback.

Section 02

Product Name: CarParkingLotrental.com(carparkinglotrental)

Product Summary:

carparkinglotl.com is an innovative web-based platform designed to seamlessly connect vehicle renters and rental providers, transforming the process of renting car parkings. To ensure a secure and efficient experience, all users must first complete the registration process, requiring unique email addresses and phone numbers for user authentication.

Our user-friendly website empowers renters to effortlessly browse and connect with vehicle rental providers. Providers can showcase their available vehicles with comprehensive details, including rental rates for various timeframes. Renters, in turn, can efficiently find the perfect vehicle by filtering their search based on criteria such as location, price, and more, presenting a diverse array of options tailored to their specific needs.

The platform features a secure, encrypted payment system that enables renters to make payments with ease, ensuring that rental providers receive their earnings promptly and without delays.

By utilizing CarParkingLotRental.com, individuals can save valuable time in securing the ideal vehicle for their travel or transportation requirements. The entire process unfolds online, delivering the convenience of arranging vehicle rentals from the comfort of one's home or while on the go. This is the essence of what CarParkingLotRental.com accomplishes making car parking lot rental accessible, secure, and efficient for all.

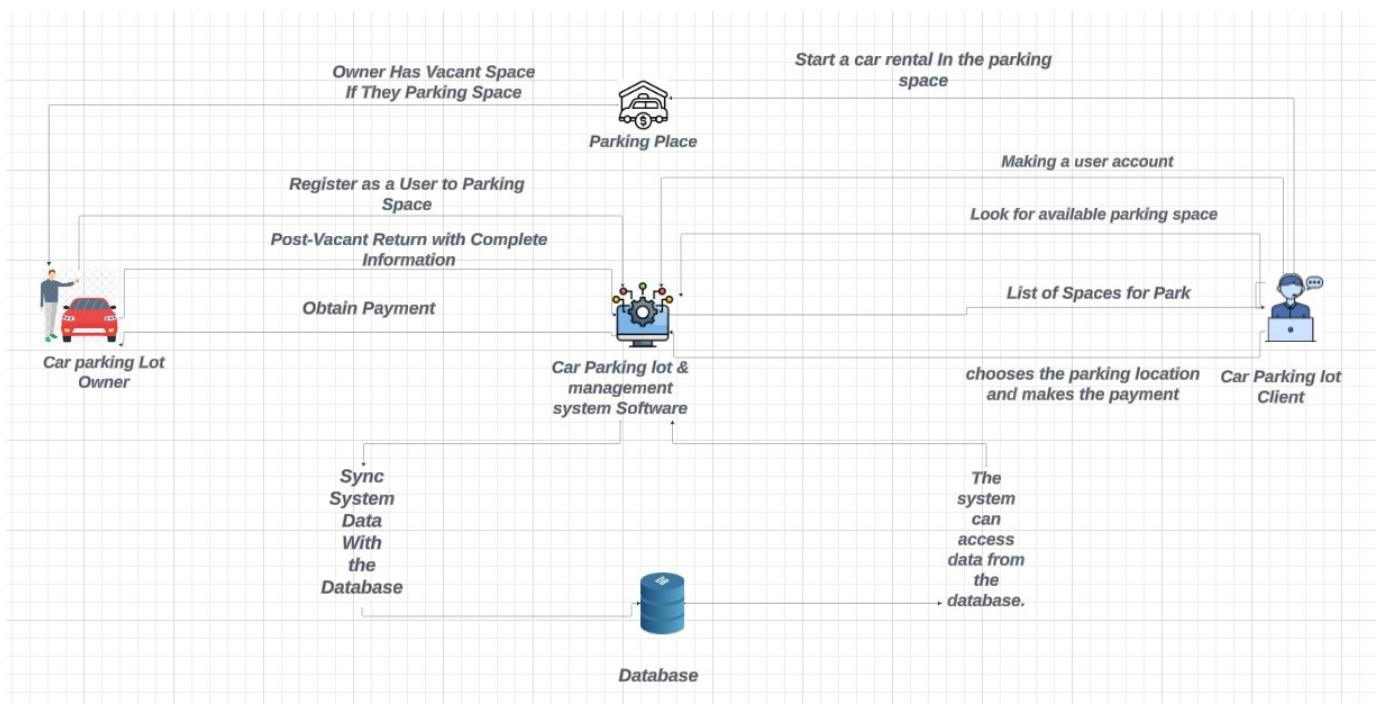


Figure 1 : Rich Picture For Car Parking Lot and Management System

Internal Stakeholders:

- **Founders and Management Team:** The founders and top-level management are internal stakeholders responsible for setting the vision and strategic direction of the platform. They make key decisions about its development and growth.
- **Development Team:** The team of developers, software engineers, and IT professionals is vital for building, maintaining, and updating the platform's software and infrastructure.
- **Customer Support Team:** Internal customer support staff assists users with their inquiries, issues, and complaints. They play a critical role in ensuring a positive user experience.
- **Quality Assurance (QA) Team:** QA testers and analysts internally verify the quality, security, and functionality of the platform, helping to ensure it operates as intended.
- **Marketing Team:** The marketing team is responsible for promoting the platform, attracting users, and expanding its user base. They work to increase brand visibility and user engagement.
- **Legal and Compliance Team:** This internal team ensures that the platform adheres to legal and regulatory requirements, including data privacy, payment processing, and business contracts.

External Stakeholders:

- **Parking lot Space Owners:** Parking lot space owners are external stakeholders who list their spaces on the platform. They rely on the platform to connect with renters and manage their parking spaces.
- **Parking lot Space Seekers (Users):** These external stakeholders are the primary users of the platform. They rely on the service to find convenient parking spaces and complete secure rental transactions.
- **Payment Service Providers:** The external stakeholders in this category include payment gateway providers who handle the secure payment transactions between seekers and owners. This may also involve financial institutions.
- **Local Businesses and Service Providers:** Local businesses, such as parking garages, hotels, or commercial properties, may partner with the platform. They are external stakeholders who collaborate to offer parking spaces and related services.
- **Regulatory Authorities:** Government entities and regulatory bodies that oversee parking and rental services may be external stakeholders who monitor and potentially influence the platform's operations.
- **Competitors:** Competing platforms in the automobile rental and parking space sector are external stakeholders who can impact the platform's market position and strategies.

Context Level Data Flow Diagram:

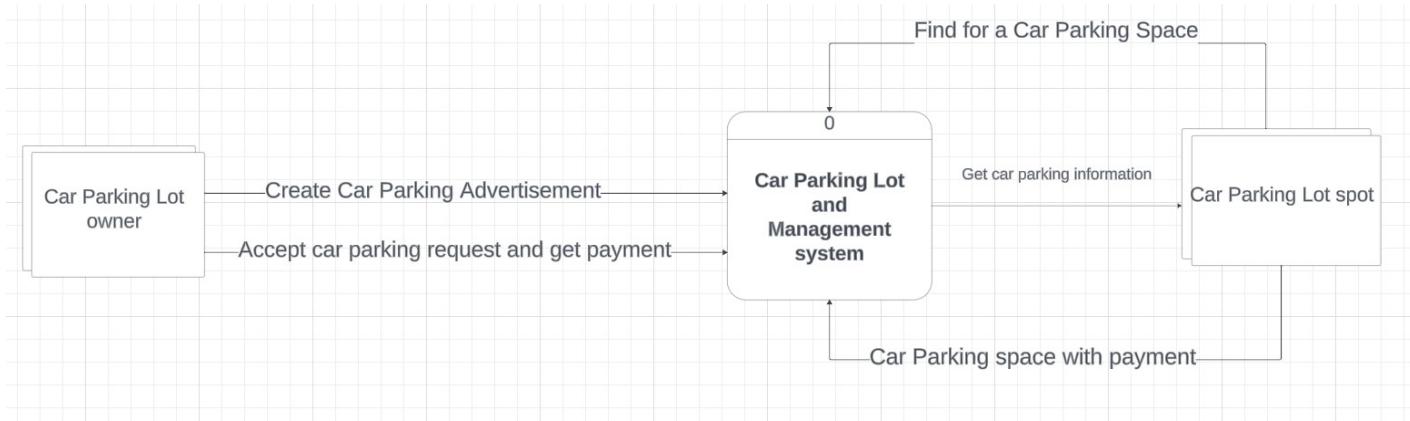


Figure 2 : Context Level Data Flow Diagram

Opportunities for the Car Parking Lot Rental and Management System project include:

Unlocking Unused Parking Spaces: Underutilized parking spots can be efficiently rented out, turning them into a valuable resource for both space owners and renters.

Efficient Parking Spot Discovery: Those in need of parking will have a quick and easy way to find available spots, reducing the time and effort required for the search.

Time and Effort Savings: Parking space owners and seekers will save time and reduce the extra work involved in managing and finding parking, making the process smoother and more convenient.

Expanded Customer Reach: Parking space owners can connect with a larger pool of potential customers, broadening their opportunities for income generation.

Special Offers and Discounts: Parking lot owners can readily offer special deals or discounts to attract more renters, creating a competitive and cost-effective market.

Traffic Impact Reduction: With more off-road parking spaces accessible, there will be a notable decrease in the impact on traffic. This surplus of parking options will alleviate the difficulties faced by car parking lot owners and reduce the likelihood of traffic fines.

Environmental Benefits: Implementing an efficient car parking lot management system can contribute to environmental benefits by reducing traffic congestion and associated emissions, thereby promoting a cleaner and greener urban environment.

As it is a web application, it will run on any computer platform with operating systems:

- Windows (Windows XP or higher)

- macOS (Cheetah or higher)
- Linux Graphical OS Family (i.e.: Ubuntu, Linux Mint, Fedora, etc.)

15 Car Parking Space Rental Management System The program will also run on any mobile platform with operating systems:

- Windows (Version 8.10 or higher)
- Android (Version 4.0 or higher)
- iOS (Version 4.0 or higher) The minimum hardware requirements for any platform:
 - 256 MB of free hard-drive space
 - 128 MB of Ram
 - 64 MB video card with DirectX 9.0 compatible drivers (For computers)
 - Keyboard and mouse / Touch screen

Key Technical Features of Software The following are the key technical features of our software:

- The website will be responsive and user-friendly, as well as device friendly. It will be fast as it has a responsive user interface.
- Car parking space seekers can find new parking space from the comfort of their own homes or on the go.
- Everything is automated, so there will be no error of any kind.
- All data will be stored in the database. Therefore, all data can be used for future purposes.
- The entire system will be fully encrypted, so it will be secure.
- This software can be used by users from anywhere.
- There is no chance of making any false empty parking space post by the owners due to a well structured framework.
- Highly maintained system.
- Any type of bug can be fixed more quickly.
- The website is easy to operate and understand how it works.

The system will be revised or updated as per market needs.

- Developers will manage the system and aim to make it more effective, stable, and secure.

Section 03

Information Gathering Methods

Interviewing:

Conducting interviews is a widely employed method of gathering data that attempts to get information from individuals. In order to gather information about any issue area, the interviewer asks questions of the interviewee in a face-to-face interpersonal setting. A live, purpose-driven interaction with a question-and-answer format is called an information-gathering interview. During the interview, you want to know the interviewee's opinions and ideas about the system's current state, personal and organizational priorities, and unofficial protocols for interacting with IT. One of the most important ways to collect information about the needs for information and human systems is through interviews.

Five Measures to Schedule an Interview

Acquiring Background Information: It's critical to read and understand as much as you can about the individuals you're interviewing and their company.

- Establish Interview Objectives: Choose four to six key areas that you would like to inquire about that relate to HCI, information management, and decision-making

behavior. Concerns about HCI, information sources, formats, decision-making frequency, information quality, and decision-making style are some of these areas.

- Think About Who to Interview - When choosing who to interview, think about influential individuals at all levels who might be impacted by the system in any way.
- Get the Interviewee Ready: Arrange for the person to be interviewed by giving them advance notice by phone or email, and giving them time to think about the interview.
- Choose the Types and Structure of Your Questions: When crafting questions, keep in mind the important aspects of decision-making and HCI that have been identified as interview objectives.

Question Types

There are two key types of questions that would be used to develop interviews. Each type of question is helpful in various circumstances and at important events during the interview. In addition, separate details will be generated for each category of question.

- Open-Ended Questions –Open-ended interview questions encourage interviewees to respond to their preferences and length of time.
- Closed Interview Questions –Closed interview questions restrict the number of potential responses.

Organizing Questions in a Logical Sequence:

There are three ways of organizing interviews—pyramid, funnel and the diamond approach which combines both.

- Pyramid - Starting with closed questions and advancing to open-ended questions.
- Funnel - Starting with open-ended questions and advancing to closed questions. Diamond - Starting with closed, advancing to open-ended, and ending with closed questions.

Closing the Interview

- Always inquire if there is something else needed to add?
- Summarize and provide recommendations on observations.
- Ask whom you should talk with next.
- Schedule any future appointments.
- Thank them for their time and shake hands.

Interview Report

- Prepare the report as soon as possible after the interview.
 - Provide an initial summary, then later add more detail to the report.
 - Review the report with the respondent.
- Advantages of interview
- Interviews are a versatile tool.

- It is an effective method for collecting information on diverse subjects.
- It is easy to determine key issues by gathering opinions.
- Many people enjoyed being interviewed.

Limitations of interview

- Prolonged period is needed for preparation.
- Requires a lot of time and expense to conduct.

Interview Summary

Project: Car parking lot Rental Management System

Date: October 30, 2023

Prepared By: All Team Members

Interview: Zahirul Alam, car parking lot Space Owner, Uttara, Dhaka

Project Scope: Zahirul Alam seeks to change Dhaka's current car parking lot space rental system. The existing system is frequently ineffective and slow. Because of the current scheme, Zahirul Alam had to wait a long time for a new renting space when his old one became vacant. He longs for a virtual method that would enable him to rent space quickly. He saw how the current system operated; the tenants disregarded the guidelines he had established. Renters frequently underpay or fail to pay their rent on time. Zahirul Alam believes that his unwritten rules and lack of commitment are the reasons behind this. He therefore desires a virtual method where all guidelines for renting space will be documented. and There will also be a rental fee. Zahirul Alam can readily demonstrate his rules and regulations to tenants in the future and take appropriate action if needed. Zahirul Alam also noticed that the rental process was very time-consuming in the current car rental industry. Tenants typically visit the rental spaces multiple times. The owner is actually inconvenienced by this. Because of this, owners' precious time is lost in vain. He therefore desired an automated system that would allow tenants to view his available space. so as to avoid wasting any more of Zahirul Alam's time. For Zahirul Alam, the current system for renting out space isn't quite functioning as it should. He feels that the current system is insufficient. It wastes his time and causes him a great deal of trouble. He believes that this outdated system will soon be replaced by something better.

System Objectives

- To improve the current car parking space renting system.
- Make renting space easier.
- Create an automated system for renting space.

Required System Features

- Searching for a renting space should be easier.
- Every renting space's details should be described.
- There should be a record of renting space with proper details.

Questionnaire

When assessing device specifications for a project that requires input from a large number of people, a questionnaire can be an effective tool. A document with a list of common questions that can be sent to multiple

recipients is called a questionnaire. Utilizing questionnaires, data on workloads, reports received, volumes of transactions processed, job task types, difficulties, and opinions regarding work processes can be gathered.

Planning for the Use of Questionnaires

The people who must be questioned are widely dispersed. A sizable portion of the public is interested in the system process, so it's important to know what proportion of the public supports or opposes a particular feature of the suggested system. Conduct a preliminary analysis and gather consensus before providing the framework project with definitive direction. Ensure that in follow-up interviews, every problem with the current system is identified and fixed.

Question Types

Questions are designed as either

- **Open-ended** Try to anticipate the response you will get Well suited for getting opinions
- **Closed** Use when all the options may be listed When the options are mutually exclusive

Using Scales in Questionnaires

Measurement

- Nominal scales** -Nominal scales are used to classify objects. The following issue uses a nominal scale:

What type of phone do you use the most?

1 = A Feature Phone

2 = A Windows Phone

3 = AnAndroid Phone

4 = An Apple Phone

- Interval scales** -The intervals between each pair of numbers are equal. A question such as the following uses a interval scale:

How useful is the support given by the Technical Support Group?

Not Useful at All Extremely Useful

1 2 3 4 5

- **Validity and Reliability**

- **Validity** - Validity is the degree to which a question measures what the analytics intends it to measure
- **Reliability** - Reliability of scales refers to consistency in response, response—getting the same results if the same questionnaire was administered again under the same conditions.

Problems with Scales

- **Leniency** - Leniency is a problem caused by respondents who are easy raters.
- **Central Tendency** - Central tendency occurs when respondents rate everything as average.
- **Halo Effect** - Halo Effect occurs when the impression formed in one question carries into the next question.

Designing the Questionnaire

A well-designed, relevant questionnaire can help overcome some of the resistance to responding. Here are some rules for designing a good questionnaire:

- Brief and user-friendly.
- Clear instructions.
- Questions in logical order.
- Allow ample white space.
- Allow ample space to write or type in responses.
- Make it easy for respondents to clearly mark their answers.
- Be consistent in style

Order of Questions

Some guidelines for ordering questions are

- Place questions that are important to respondents first.
- Cluster items of similar content together.
- Introduce less controversial questions first.

Administering Questionnaires

Administering questionnaires has two main questions:

- Who in the organization should receive the questionnaire?
- How should the questionnaire be administered?

Methods of Administering A Questionnaire

A systems analyst has several options for administering a questionnaire

- Convening all concerned respondents at one time.
- Personally, handing out blank questionnaires and taking back completed ones
- . ● Allowing respondents to self-administer the questionnaire at work and drop it in a centrally located box.
- Mailing questionnaires to employees at branch sites and supplying a deadline, instructions,
- and return postage.
- Administering the questionnaire electronically either via email or on the Web.

Advantages of questionnaire

- Questionnaires are most useful when used for specific purposes rather than for more general information gathering.
- Questionnaires can be given to many people at a time.
- Questionnaires are less expensive and less time-consuming.
- Questionnaires can be performed on paper, over the telephone and electronically.
- Questionnaires are a rigidly structured means to obtain answers to pre-selected inquiries.

Limitations of questionnaire

- Questionnaires that bear controversies may not be precisely answered by the participants because of the probable difficulty of recalling the information related to them.
- While there are many positives to questionnaires, dishonesty can be an issue.

Questionnaire on Car parking Space Rental Management System

Date:

1. Personal Information of car parking lot Space Seeker:

Name:

Phone:

Email:

Address:

2. How many years are you staying in Dhaka?

3. How many times have you changed your renting space? _____

4. How many renting spaces do you require?

5. Your expected renting space rent fee per month?

Questionnaire on car parking lot Rental Space Management System:

Date:

1. Personal Information of Car parking Space Seeker: Name: Phone: Email: Address:

2. How many years are you staying in Dhaka?

3. How many times have you changed your renting space? _____

4. How many renting spaces do you require?

5. Your expected renting space rent fee per month?

0 –1999	2500-29	99 3000-34	99 3500+
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6. How many times does it take to find a new renting space?

7. Have you ever faced any trouble?

O YES O NO

8. If yes, please explain.

9. Explain renting space owner behavior when you go for renting space.

10. Are the owners' commitments clear about their renting space?

YES NO

11. How much does the renting SpaceOwner's behavior change after renting a renting space? Please explain.

12. Are you satisfied with the present renting space renting system?

YES NO

13. If not, please tell us about your expectation for a new renting space renting system.

14. Are there any other remarks you would like to make about the performance improvement arrangements that are not protected by the aforementioned questions?

Sampling

The process of methodically selecting representative subsets of the population is known as sampling. It is anticipated that a thorough analysis of these selected items will provide important information about the population as a whole. There are two main decisions that the system analyst must make. First, there are a number of documents produced by company personnel, including forms, reports, memos, and webpages. Which of these ought to be taken into consideration by the systems analyst, and which should be disregarded?

Second, the proposed information system will have an impact on a significant number of employees. Whom should the system analyst observe, interview, or obtain information from questionnaires while they are performing their decision-making duties?

The Need for Sampling

There are many reasons a systems analyst would want to select either a representative sample of data to examine or representative people to interview, question, or observe.

- Containing costs.
 - Reducing bias.
 - Improving effectiveness.
 - Speeding up the data gathering.
- Steps of Sampling A systems analyst must follow four steps to design a good sample:
- Determine the data to be collected or described.
 - Determine the population to be sampled.
 - Choose the type of sample.
 - Decide on the sample size.

Four Main Types of Samples

A systems analyst must follow four steps to design a good sample:

- Convenience: These types of samples are nonprobability, unrestricted samples. The simplest sample to arrange is this one. The most erratic selection.
- Purposive: These types of samples rely on assessments. Here, we select a group of people who seem informed and enthusiastic about the new information system. This particular type of sample lacks probability.
- Simple random: To guarantee that every member of the population has an equal chance of being chosen, this kind of sampling requires a numbered list. Frequently, this is not feasible.
- Complex random: The most suitable complex random samples for a systems analyst. Three different types of complex random samples exist.
 - Systematic sampling
 - Stratified sampling
 - Cluster sampling

The Sample Size Decision

The sample size often depends on the cost involved or the time required by the systems analysts, or even the time available by people in the organization.

- Determine the attribute to sample.
- Find the database or reports that contain the attribute and the data that is stored in them. similar to a report, on a form, or in a database.

- Look at the characteristics. Calculate p , the percentage of the population that possesses the characteristic. Generally, a sample size that is suitable is produced by a value of .10.
- Determine the acceptable interval estimate based on your subjective assessment. This is entirely a personal choice. An error of no more than 0.10 from the actual proportion, p , is indicated by an interval estimate (i) of $\pm .10$.
- Select the degree of confidence. Determine the desired level of certainty, and then consult a table to find the confidence coefficient level (z value). Please compute the Proportion's standard error. The confidence level's interval estimate and confidence coefficient
- Determine the sample size.

Population	Occupied Hours (Daily)	Expected Rent Fee (Monthly)
10%	1-2	0-1500
15%	3-5	1501-2000
20%	6-9	2001-2500
30%	10-12	2501-3000
14%	13-15	3001-3500
7	16-19	3501-4000
4	20-24	4001+

Here, we've included a basic sample of the number of hours per day the renters plan to occupy the space as well as the anticipated rent amount.

Major functionalities offered by the system Interactive User Experience:

Users won't get bored on this system website because of its lightweight and interactive design. All of the system's content is helpful and meets user needs. In order to provide users with the best database management system possible, this system will store users' search queries and browser cookies.

Get Faster Search Result:

In order to provide the user with the best possible experience when searching for or finding the ideal rental space, this system makes use of the best algorithm and search query. To provide the greatest user experience, this system makes use of the best database management system.

Save Favorite Renting Spaces:

Renting spaces that users like can be saved. A user can save a rental space to their profile if they find it appealing. Hence, users are free to review this information about renting space at any time.

Share your Favorite Renting Space to Social Media:

Users of this system have the option to share any post about renting space on social media. In order to provide rental space owners with a quality audience and rental space seekers with the opportunity to show this rental space to a friend or loved one and receive feedback prior to renting it.

Chatting:

After renting a space through this system, the owner of the space and the person looking for a space can communicate with one another. For the best chat experience for users, this chat system loads completely in real time.

Ratings and Reviews:

Reviews and ratings are the best features the system has to offer. To learn more about a specific renting space, users can view and leave ratings and reviews. After viewing the ratings and reviews for any rental space, users can make decisions with ease.

Use Case Diagram:

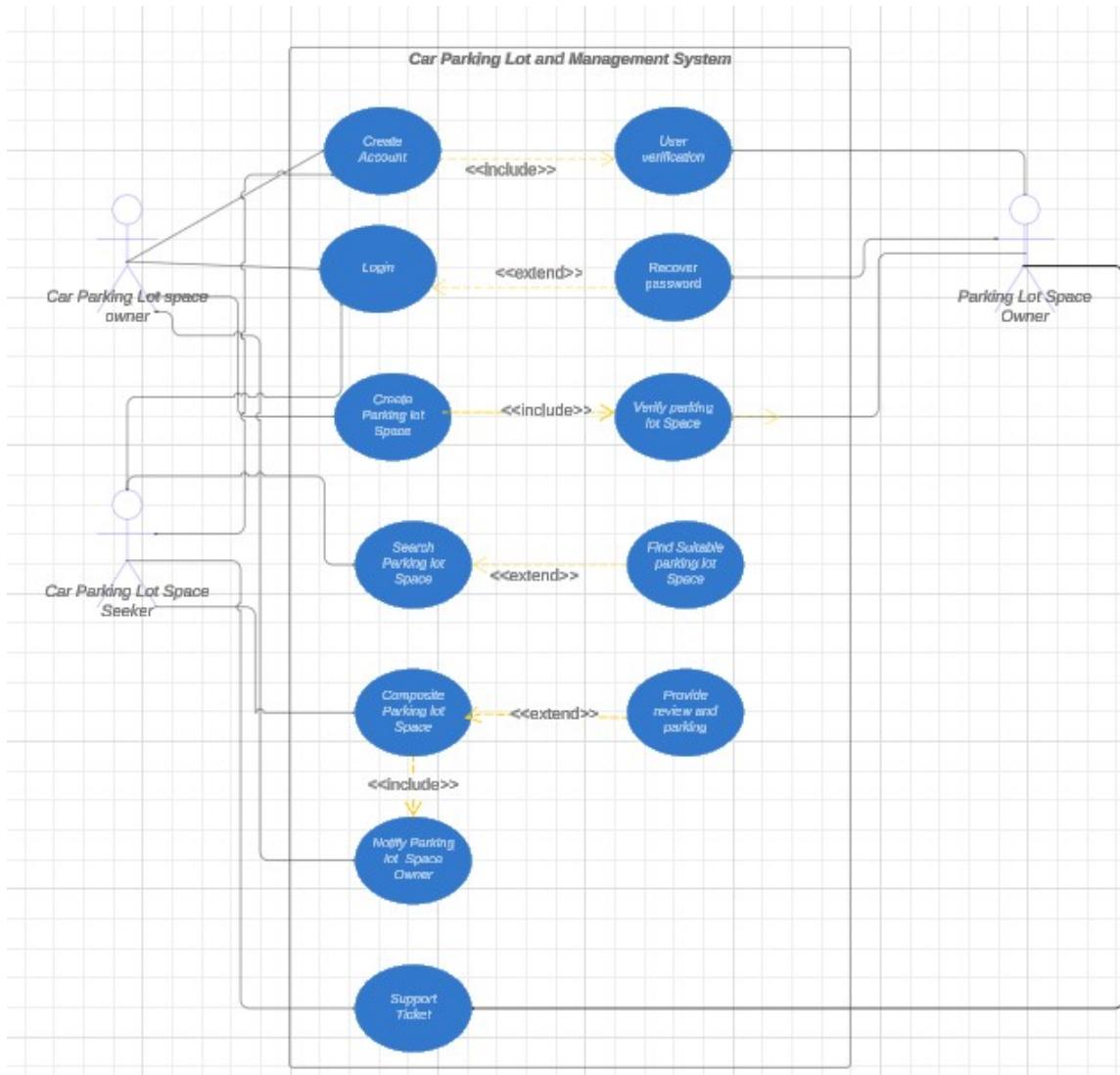


Figure: Use Case Diagram For Car Parking Lot and Management System

Normal Scenarios

Empty Car Parking lot Space Post

<u>Use case name:</u>	<u>Empty Car Parking Lot</u>	<u>UniqueID: Post 003</u>
<u>Area:</u>	<u>Post about Empty Car Parking Lot</u>	
<u>Space</u>		
<u>Actor(s):</u>	<u>Parking lot Space Owner</u>	
<u>Stakeholder:</u>	<u>Car Parking lot Space Owner</u>	
<u>Level:</u>	<u>Blue</u>	

Description: **Allow the Parking lot Space Owner to give a post about his/her empty parking space which he/she wants to set for rent.**

Triggering Event: **The Parking lot Space Owner uses the empty parking space post Web page, enters various information about the parking space. Such as, parking space size, any facilities for drivers, monthly rent fee, additional charge etc. The Parking Space Owner should also upload some pictures of his/her parking space and click the post button.**

Trigger type: **External**

<u>Steps Performed (Main Path)</u>	<u>Information for Steps</u>
<u>1. Participant logs in using the secure Web server</u>	<u>UserID, Password</u>

<p><u>2.</u></p> <p><u>Participants click on the “Post” button from the navigation bar.</u></p>	
<p><u>3.</u></p> <p><u>Participants find a group of input fields. Here participants must fill all input fields to complete a post.</u></p>	<p><u>Number of available parking space, type of parking space, size, location, monthly fee, additional charges.</u></p>

<p><u>4. After completing all input fields, Participants will click on the post button. And the post will be complete.</u></p>	<p><u>Post Record Confirmation Number</u></p>
--	---

Preconditions: Participant has already registered and has created a useraccount.

Postconditions: Participant has successfully posted about his/her empty parking lot space.

Assumptions: Participant has an empty parking lot space.

Success Guarantee: Participant has added an empty parking lot space post on the website, which is now visible to all the other users.

Minimum Guarantee: Participant has added an empty parking lot space post on the website.

Requirements Meet: Allow parking lot space owners to be able to post about empty parking :ot space via secure website.

Outstanding Issues: Is your parking lot space empty or not?

Priority: High

Risk: Medium

Complete Parking Lot Space Rent

Use case name: Complete Parking Lot Space Rent

UniqueID:
Rent001

Area: Parking Lot Space Rent

Actor(s): Parking Lot Space Owner,
Parking Lot Space Seeker

Stakeholder: Car Parking Lot Space Owner, Car Parking Lot Space Seeker

Level: Blue

Description: Allow the Parking Lot Space Seeker to rent a parking Lot space from the Parking Lot Space Owner.

Triggering Event: When the Parking Lot Space Seeker finds a suitable parking space, he will rent this parking space from the Parking Lot Space Owner. After completing this process, the previous empty parking space post will be invisible to the other parking space seeker. Parking Lot Space Owner also gets a notification about it. Parking Lot Space Owner also gets the necessary documents about renting this parking space.

Trigger type: External

**Steps Performed
(Main Path)**

Information for Steps

<p><u>1. Parking Lot space seeker logs in using the secure Web server</u></p>	<p><u>User ID, Password</u></p>
<p><u>2. Parking Lot space seekers first search suitable parking space.</u></p>	<p><u>Search by type of parking Lot space, location, parking spacesize, monthly fee</u></p>
<p><u>3. After search for a suitable parking space, parking Lot space seekers will view empty parking space post one by one. Parking Lot space seekers will read descriptions, monthly fee,</u></p>	

parking space size.

4. And then if parking Lot space seeker likes a parking space, he/she will rent it, by simply clicking “Rent Now” button,

Parking Lot Space Rent Record Confirmation Number

5. When parking Lot space seekers confirm a renting, parking space owners also gets a notification about it.

Parking Space Rent Notification

Preconditions: **Participants have already found a suitable parking lot space.**

Postconditions: **Participant has successfully rented a parking lot space.**

Assumptions: Participants need an empty parking lot space.

Success Guarantee: Participants rent a parking lot space by using a website. Now participants can store there vehicle safely.

Minimum Guarantee: Participants rent a parking lot space.

Requirements Meet: Allow parking lot spaces seekers to complete rented parking spaces via secure website.

Outstanding Issues: Do you like this parking lot space?

Priority: High

Risk: Medium

Alternative Scenarios

Verify Empty Parking Lot Space Post

<u>Use case name:</u>	<u>Verify Empty Parking Lot Space Post</u>	<u>UniqueID: Post 013</u>
<u>Area:</u>	<u>Post about empty parking Lot space</u>	
<u>Actor(s):</u>	<u>Parking Lot Space Owner</u>	
<u>Stakeholder:</u>	<u>Car Parking Lot Space Owner</u>	
<u>Level:</u>	<u>Blue</u>	
<u>Description:</u>	<u>Verify parking spaceowner's post.</u> <u>We must check; parking spaceowner has completed all the requirements or not. For posting, parking Lot space owners have to maintain some rules. Parking Lot space owners have to fill all input types from the</u>	

previous use case. We must check all these things here.

Triggering Event: The parking Lot space owner should maintain some rules and regulation for posting. Here verify all data provided by the parking space owner. All verifying will happen systematically.

Trigger type: Temporal

<u>Steps Performed (Main Path)</u>	<u>Information for Steps</u>
<u>1. Participant logs in using the secure website.</u>	<u>UserID, Password</u>
<u>2. Participants should complete their own profile. Incomplete</u>	<u>Complete User Profile</u>

profile's post will
not be published.

3.
Participants
should fill all
input in the
Empty Parking
Lot Space Post.
They should
show verified
reference. And
Upload real
pictures with
high quality.

Complete Empty Parking Lot
Space Post

4.
If everything is
correct, the system will
automatically publish
posts. Else the system
will show errors to users
to prompt the user to
provide the correct
description.

Post Record
Confirmation Number

Preconditions: **Participants have already posted an “Empty Parking Lot Space Post”.**

Postconditions: **After completion of verification. Now the post will be visible to all other user.**

Assumptions: **There should be a post for verifying.**

Success Guarantee: **Participant has added an empty parking lot space post on the website, which is now visible to all other users.**

Requirements Meet: **All data should be verified. All rules and regulation should be maintained.**

Outstanding Issues: **Is your data verified?**

Priority: **High**

Risk: **Medium**

Recover Password

<u>Use case name:</u> Recover Password	<u>UniqueID:</u> Rent001
---	---------------------------------

<u>Area:</u> Sign In

<u>Actor(s):</u> Parking Space Owner, Parking Space Seeker

<u>Stakeholder:</u> Car Parking Lot Space Owner, Car Parking Lot Space Seeker
--

<u>Level:</u> Kite

Description: If any user forgets their password, the system will send them a password recovery email.

Triggering Event: If any type of user, forgets their password they will come here, and request for a new password, then the system will send a password recovery mail to the user's email account. From the mail, the user will be redirected to password recovery link of the website where they can create a new password.

Trigger type: Temporal

<u>Steps Performed (Main Path)</u>	<u>Information for Steps</u>
<u>1. During Sign In, if the user password does not match or the user forgot password, they should click on</u>	<u>Click the Password Recover Option</u>

**“Recover
Password”.**

**2. Then the
user will see an
input field, where
the user will be
asked to enter his
email address.**

Enter Email Address

**3. Then the
system will check
this email
address with
registered user's
email. If there's a
match, then a
recovered
password mail
will be sent to the
user email
address.**

Verify EmailAddress

<p><u>4. If input field password and users registered email are different, then an error will be shown in the user interface.</u></p>	<p><u>Email did notmatch.</u></p>
<p><u>5. From password recovery mail, users can easily create a new password.</u></p>	<p><u>New Password Stored</u></p>
<p><u>Preconditions:</u></p>	<p><u>User should have a registered account.</u></p>
<p><u>Postconditions:</u></p>	<p><u>User successfully recovers the password.</u></p>
<p><u>Assumptions:</u></p>	<p><u>User have an account.</u></p>
<p><u>Success Guarantee:</u></p>	<p><u>User recover their password.</u></p>

Requirements Meet: User should have an email address which is used to register a user account on the website, password recovery mail will be send to that email address.

Outstanding Issues: Have you forgotten your password?

Priority: High

Risk: Medium

Functional Requirements

<u>Functional Requirement No.</u>	<u>Functional Requirement Description</u>

<u>FR 1</u>	<u>System shall send a verification email to a new user who creates a new account.</u>
<u>FR 2</u>	<u>System shall generate a unique user id for all users.</u>
<u>FR 3</u>	<u>System shall check if new users email address is unique or not. And the system will only accept unique email for new users.</u>
<u>FR 4</u>	<u>System shall send a recovery password email to users who forgot their password.</u>
<u>FR 5</u>	<u>System shall allow users to write or edit their user bio, upload user profile pictures, and complete their account settings.</u>
<u>FR 6</u>	<u>System shall allow specific users to post about their empty parking spaces.</u>
<u>FR 7</u>	<u>System shall display search result as user search query.</u>

<u>FR 8</u>	<u>System shall display specific user accounts to other users.</u>
<u>FR 9</u>	<u>System shall display specific empty parking space posts to the user.</u>
<u>FR 10</u>	<u>System shall display users “ratings and reviews” to the other users.</u>
<u>FR 11</u>	<u>System shall allow the user to provide ratings and reviews to the parking space owner’s user account and empty parking lot space post after renting it.</u>
<u>FR 12</u>	<u>System shall allow the user to contract with the parking lot space owner after renting the parking space.</u>
<u>FR 13</u>	<u>System shall check the user account balance when the user tries to rent a parking space.</u>

<u>FR 14</u>	<u>System shall record all transactions and parking spacerenting history to the database server.</u>
<u>FR 15</u>	<u>System shall remove an empty parking spacepost after it is being rented by a parking lot space seeker user.</u>
<u>FR 16</u>	<u>System shall publish metadata harvestable by Google Scholar.</u>
<u>FR 17</u>	<u>System shall store all browser cookies and search queries to give users a better user experience.</u>
<u>FR 18</u>	<u>System shall allow users to share their empty parking lot space post to the other social media.</u>
<u>FR 19</u>	<u>System shall send “discount and mega” offer email to the user, if the user chooses to get discount offers.</u>

<u>FR 20</u>	<u>System shall display “related item” to the user by their recent search query.</u>
<u>FR 21</u>	<u>System shall charge a penalty to the user for rent cancellations.</u>
<u>FR 22</u>	<u>System shall allow the user to create a support ticket to notify the system about system failure or any kind of bug or problem faced by the user.</u>
<u>FR 23</u>	<u>System shall send a confirmation email to the user after the user rents a parking lot space successfully.</u>
<u>FR 24</u>	<u>System shall remove a post if the user wants to delete his empty parking lot space post.</u>
<u>FR 25</u>	<u>System shall take necessary action against a user if multiple other users reports him.</u>

Nonfunctional Requirements

<u>Category</u>	<u>Nonfunctional Requirement</u>
<u>Usability</u>	<ul style="list-style-type: none">● <u>The UI of this system must be clean and simple. So that new users can easily get used to this software fast.</u>● <u>Complete user guide, rules and regulation must be uploaded for the user on the website. Users can read it anytime.</u>
<u>Performance</u>	<ul style="list-style-type: none">● <u>System will be responsive with mobile and any type of device.</u>● <u>System will be capable enough to handle 20 million users without affecting its performance.</u>● <u>System will respond to user requests in less than 0.1 seconds.</u>

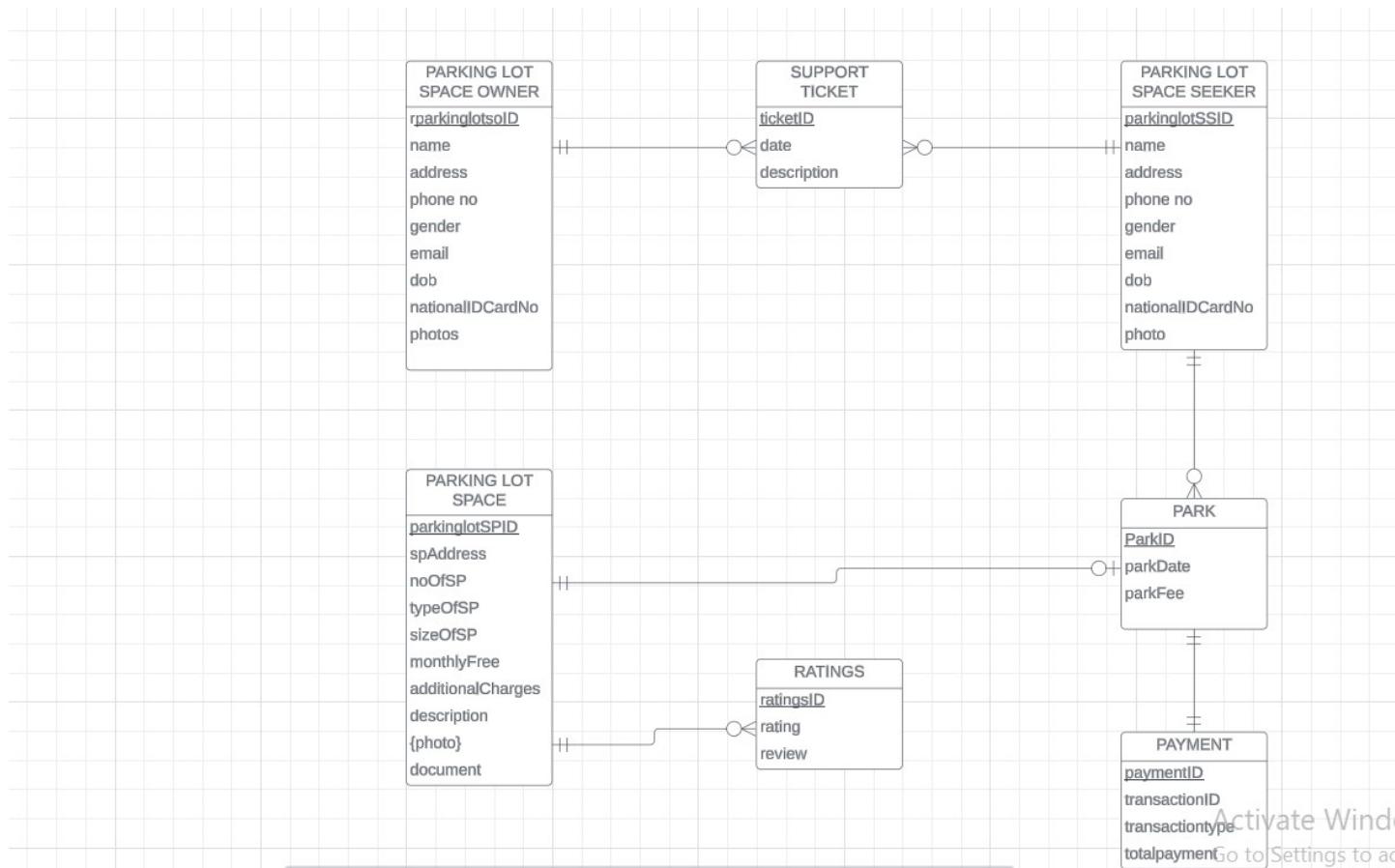
<u>Information</u>	<ul style="list-style-type: none"> ● <u>All transactions and rent information will be stored in the database server for future use.</u> ● <u>Users can download all information or rent information if needed.</u>
<u>Economy</u>	<ul style="list-style-type: none"> ● <u>This system will be deployed to a cloud hosting provider, so that we do not need any data center or server.</u> ● <u>We will activate the pay-as-you-use package from the cloud provider. So that we will only pay for what we use.</u> ● <u>This system can be developed in a short time. We can first release our system within 6 months.</u>
<u>Control</u>	<ul style="list-style-type: none"> ● <u>This system will maintain user privacy.</u> ● <u>This system will be secure.</u> ● <u>User data will safely backup for disaster recovery.</u>

	<ul style="list-style-type: none"> ● <u>If in future, our system is attacked by a hacker, our security team will notify it quickly. And start work immediately.</u>
<u>Service</u>	<ul style="list-style-type: none"> ● <u>System will be deployed on cloud and regularly maintained by system admin and other employees.</u> ● <u>There will be two types of users. Parking lot SpaceOwner and Parking lot SpaceSeeker.</u> ● <u>Users can use the system from anywhere in the world.</u> ● <u>System will be portable, changing OS to OS or device to device will not create any problem.</u> ● <u>Necessary system updates will come time to time.</u>
<u>Reliability</u>	<ul style="list-style-type: none"> ● <u>System will be reliable and available for any kind of OS, device, computer, mobile.</u>

- Because of our safe backup, no data will be lost.
- System update or any kind of testing will not affect the running system.

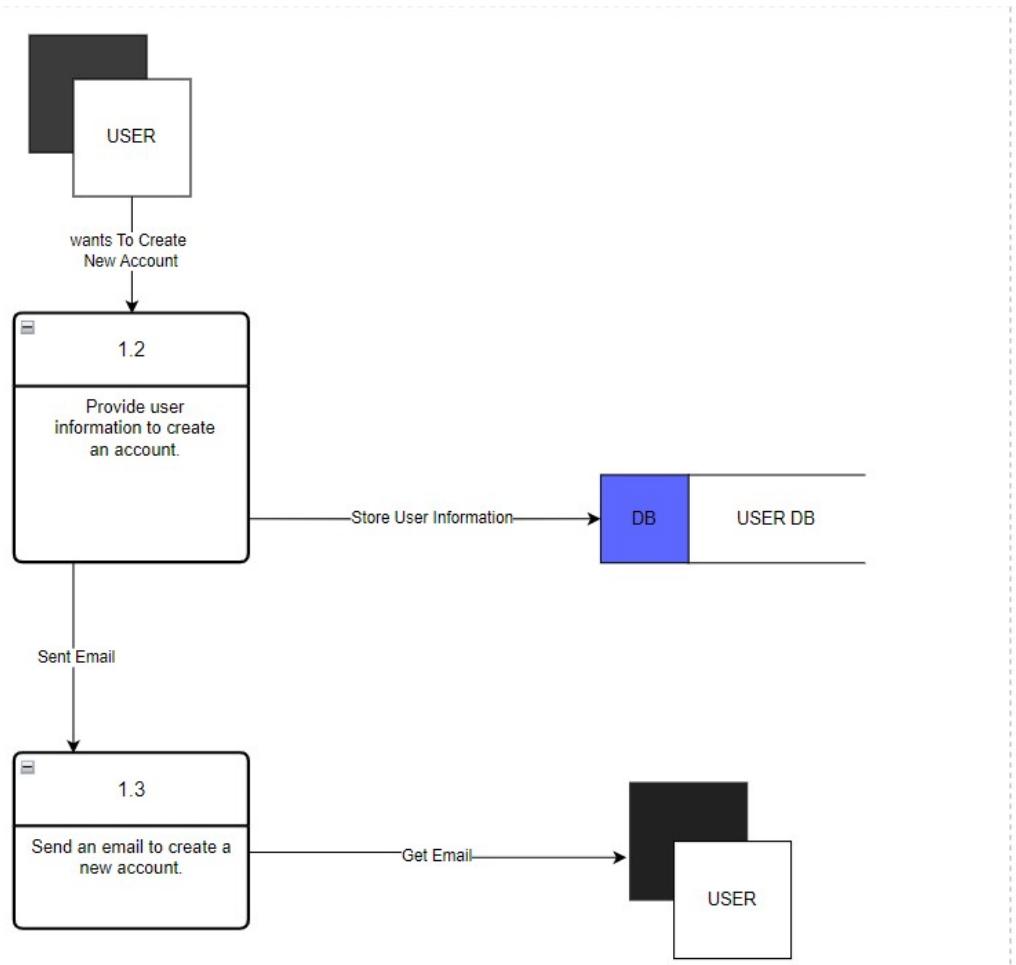
Section 4:

Entity Relationship Diagram:

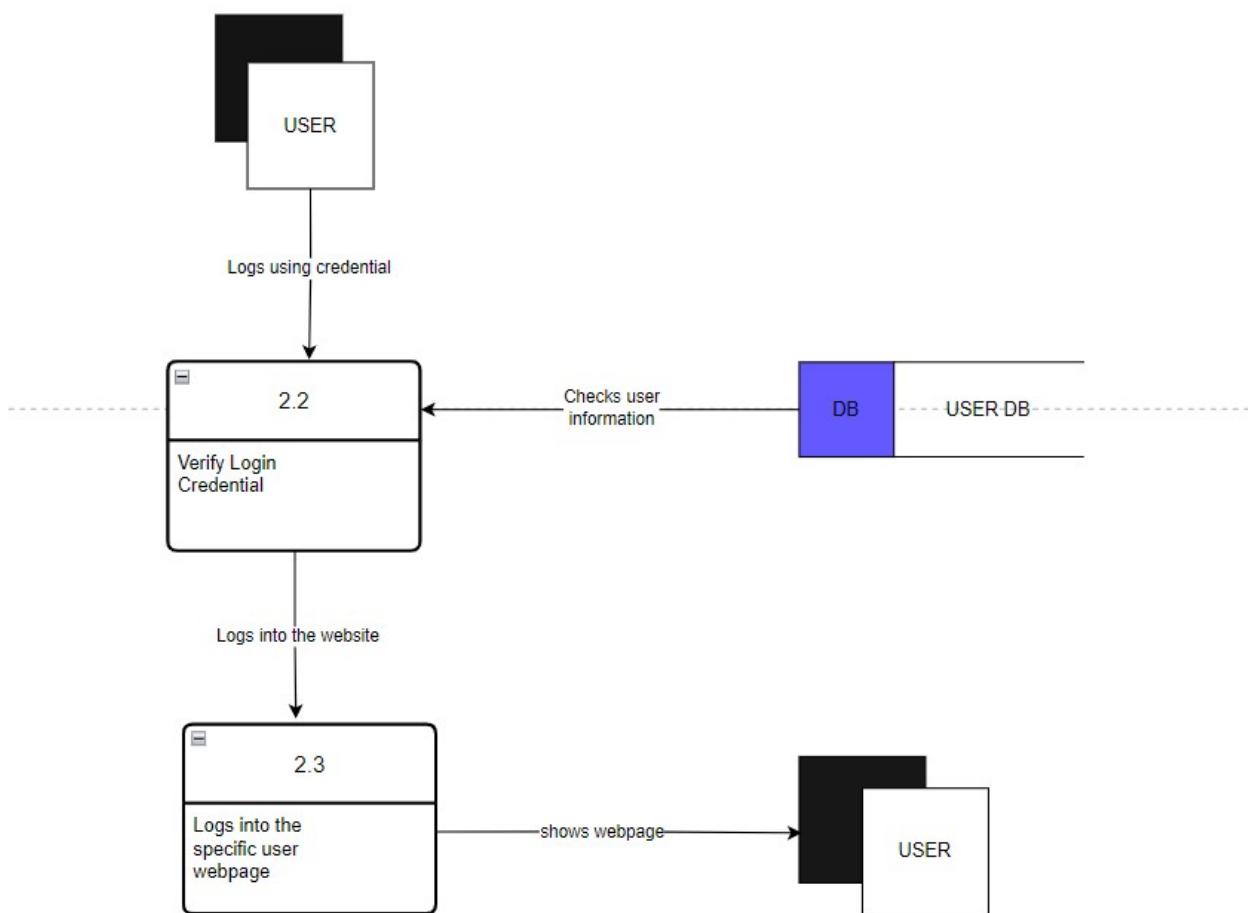


Logical Data Flow Diagram

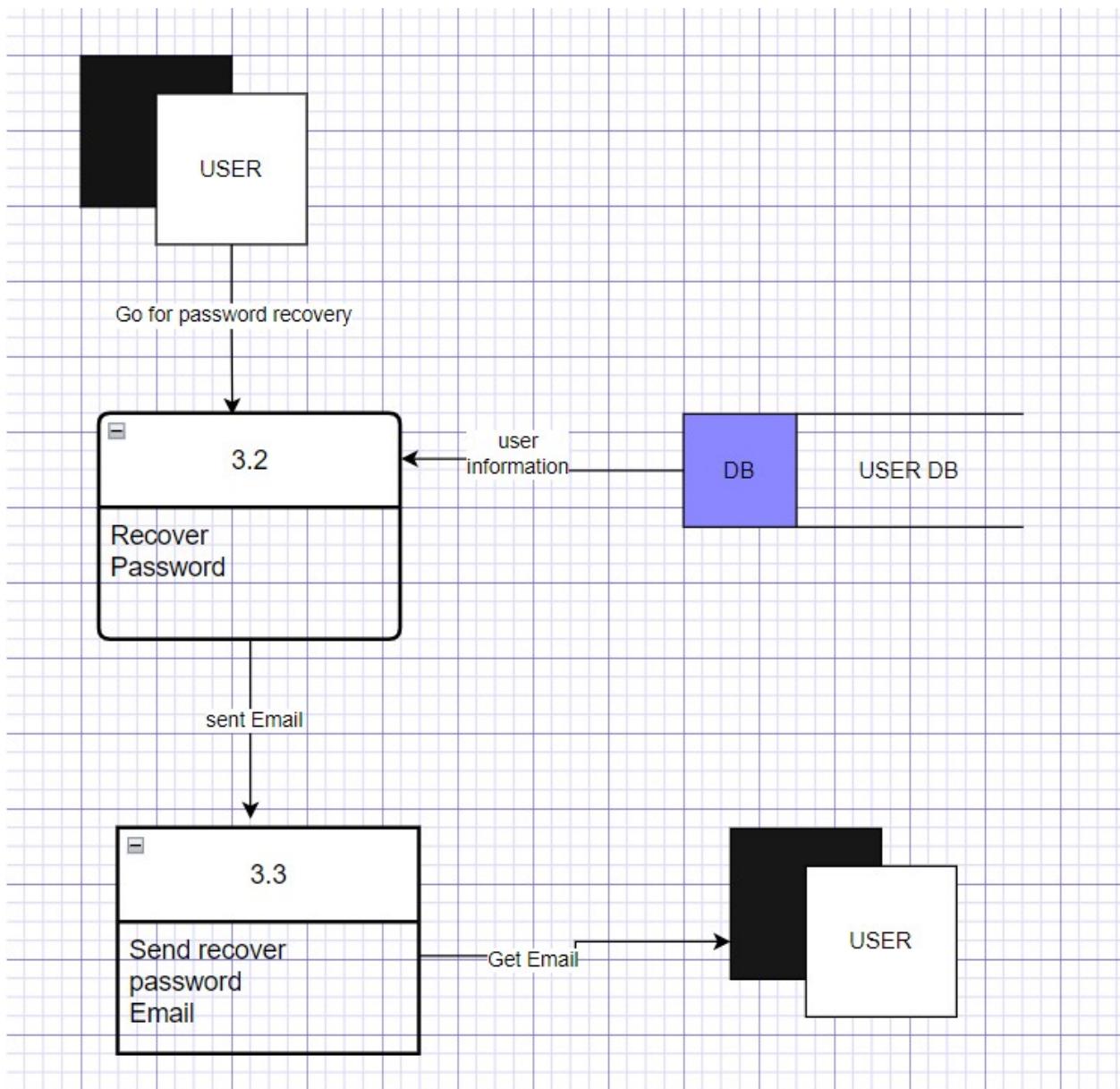
User Signup



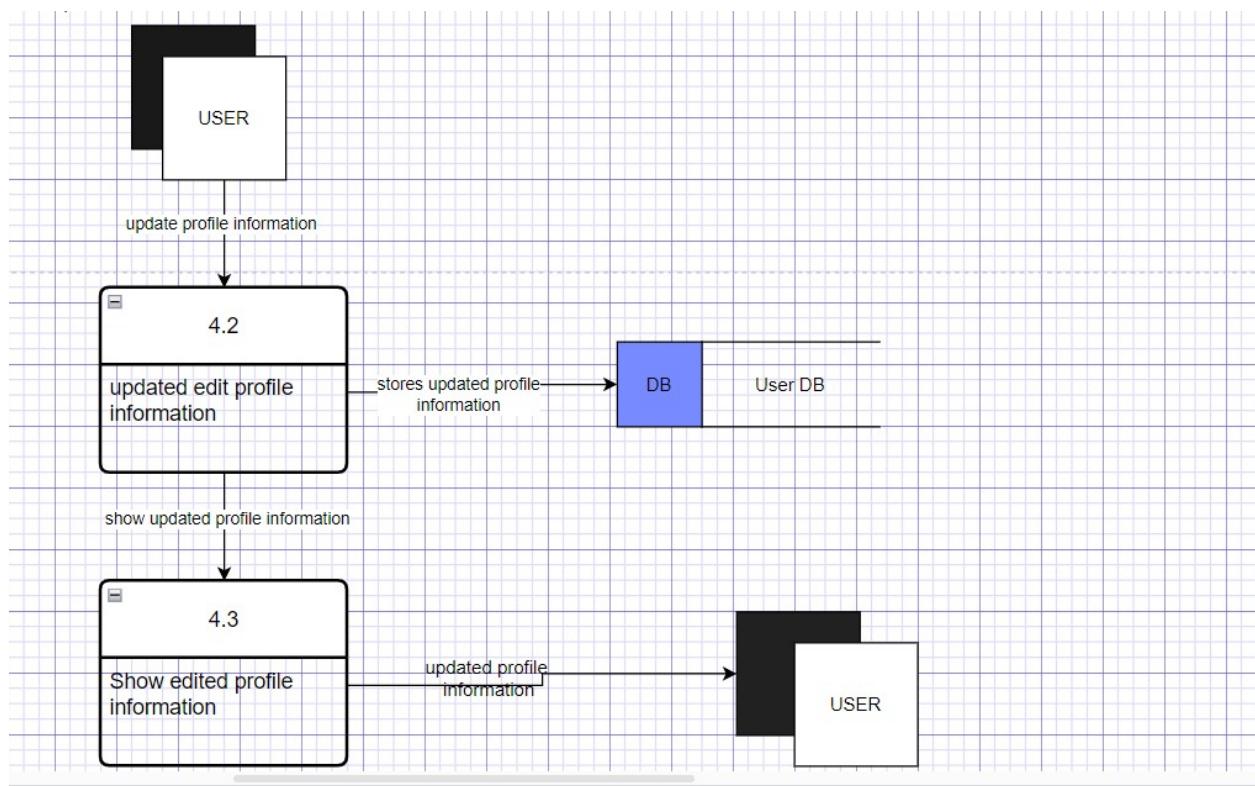
User Login:



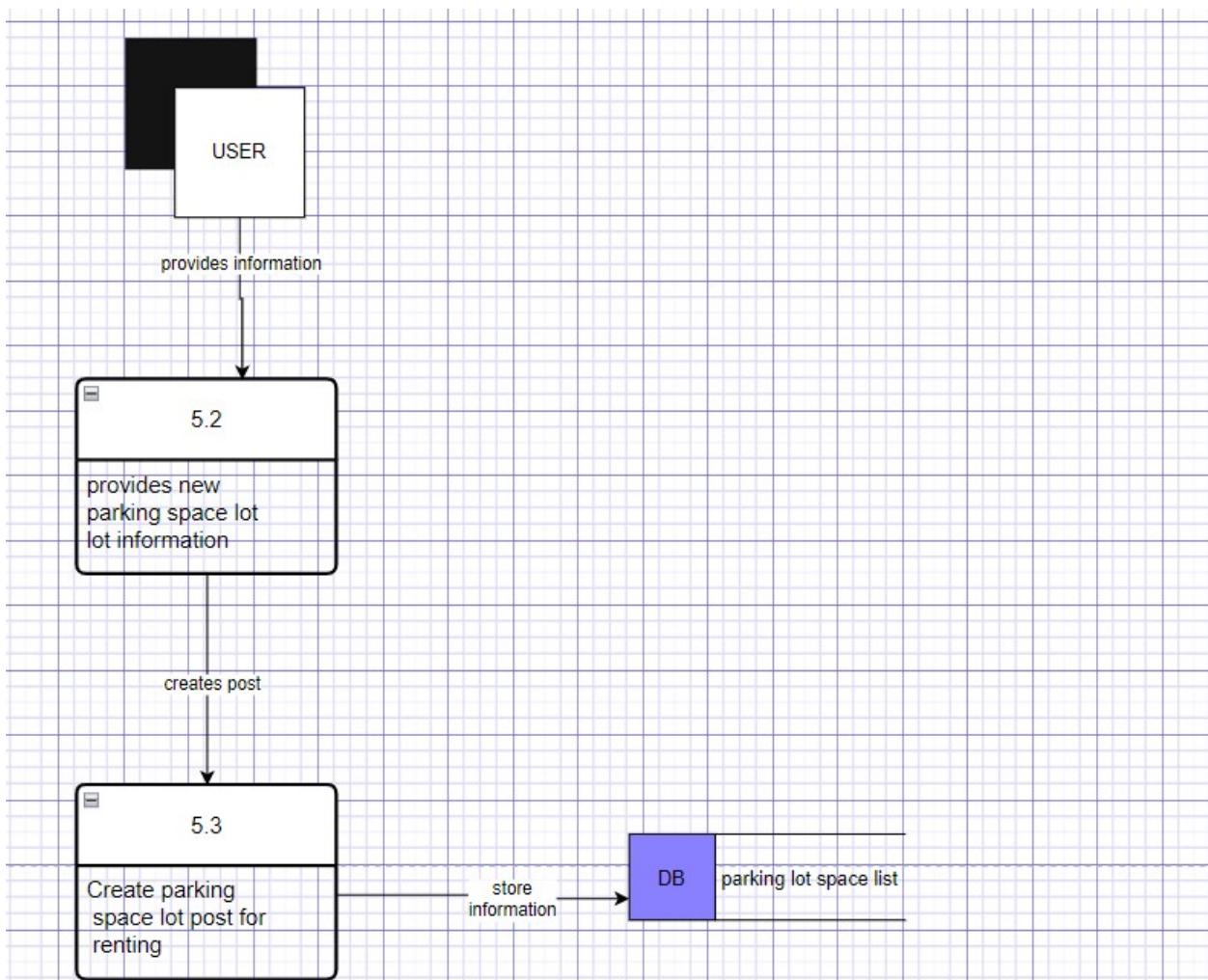
Recover Password:



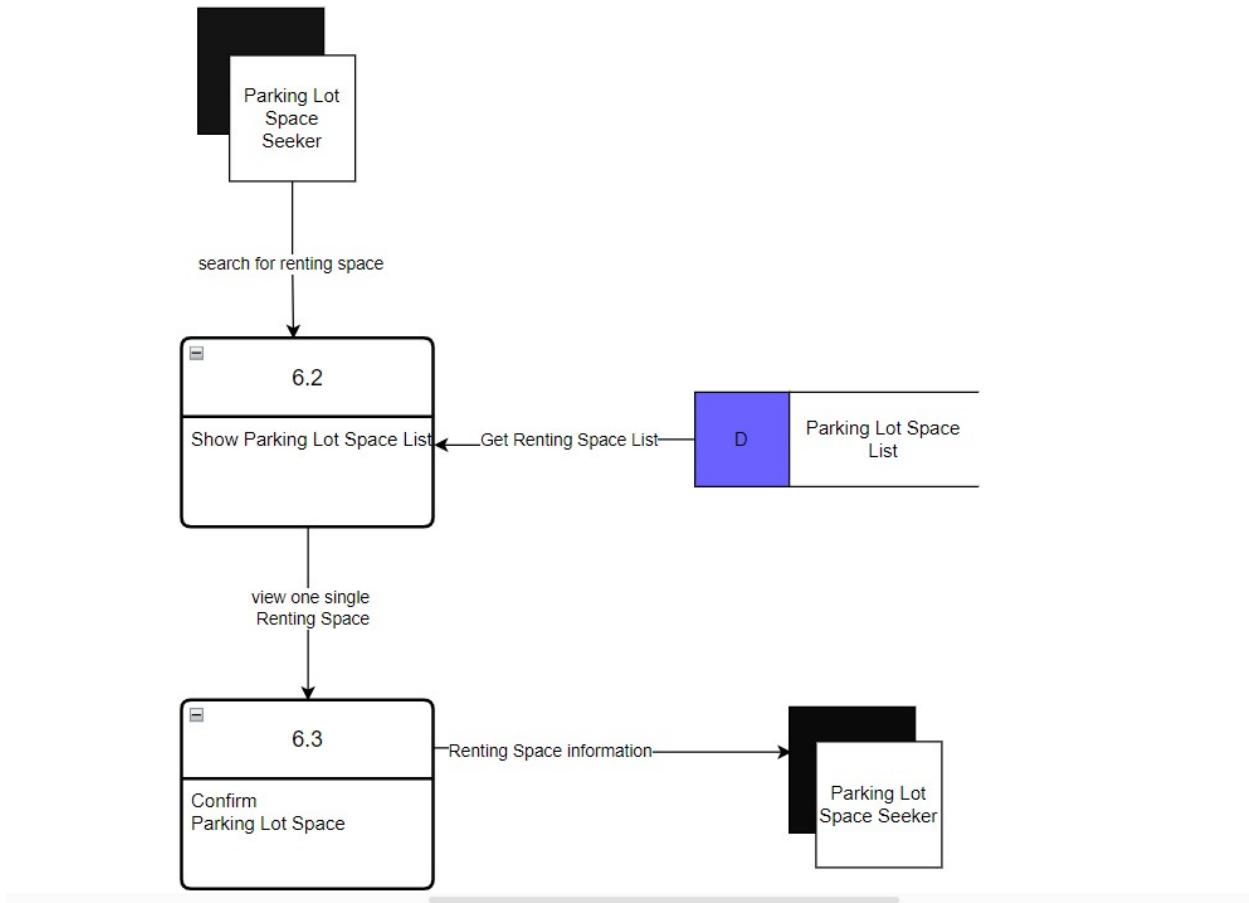
Edit Profile:



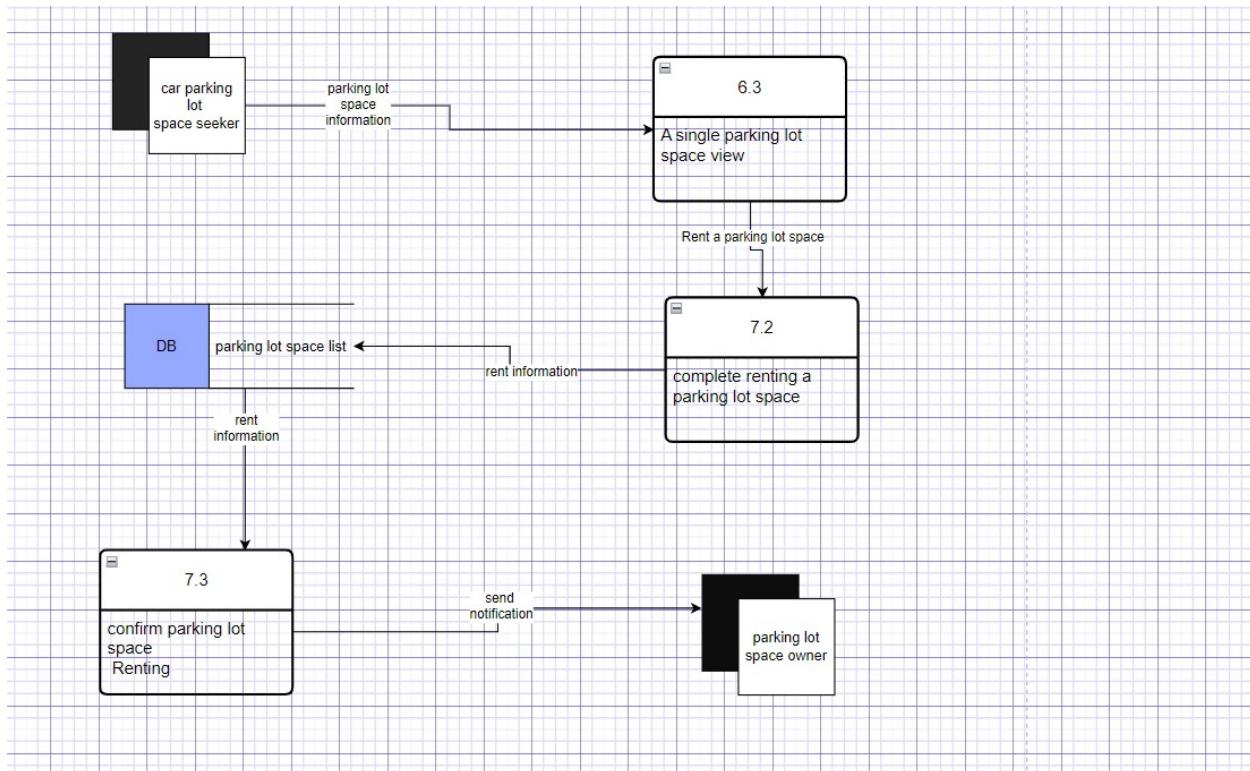
Post a New Parking Lot Space



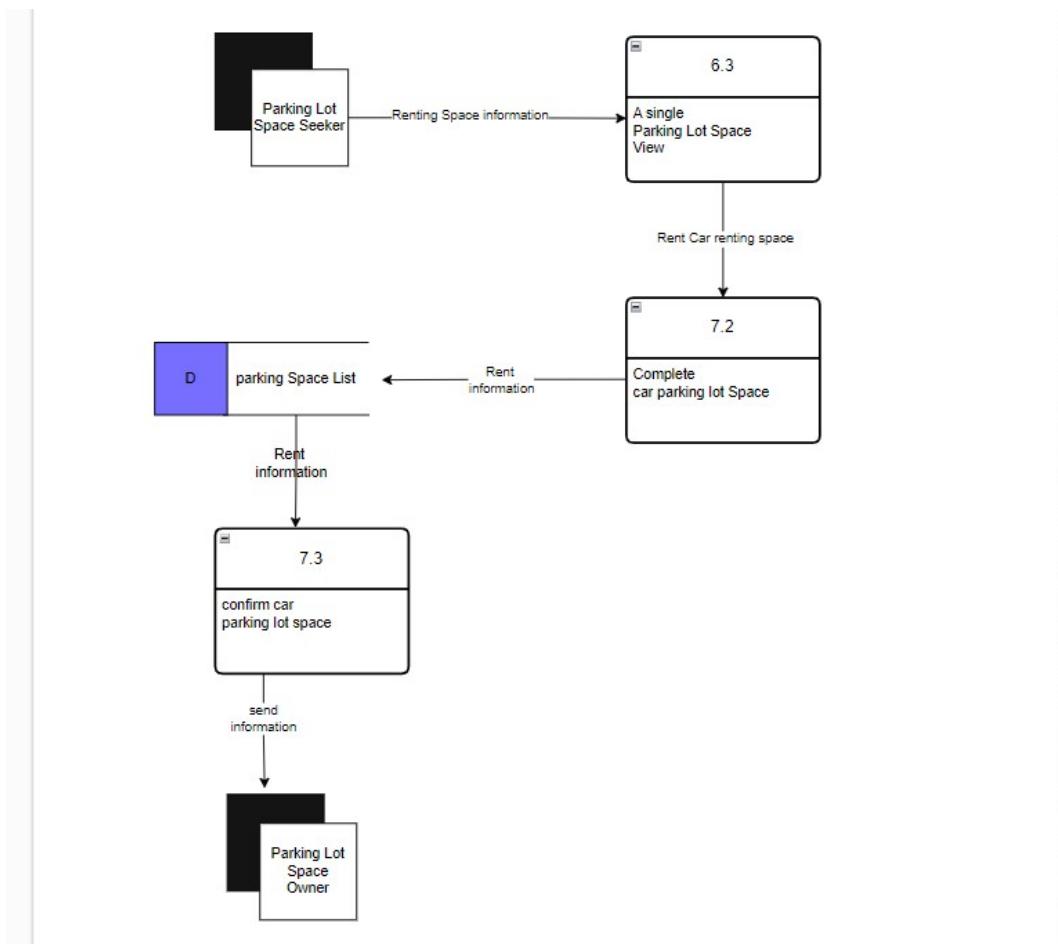
View a Single Parking Lot Space Details:



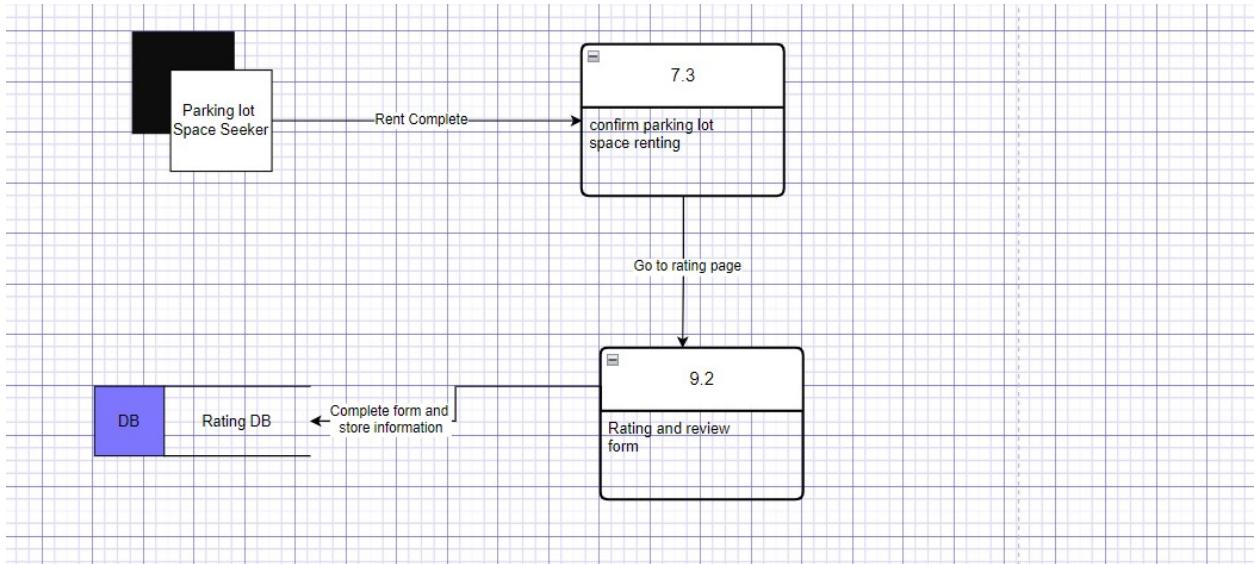
Rent a Parking Lot Space



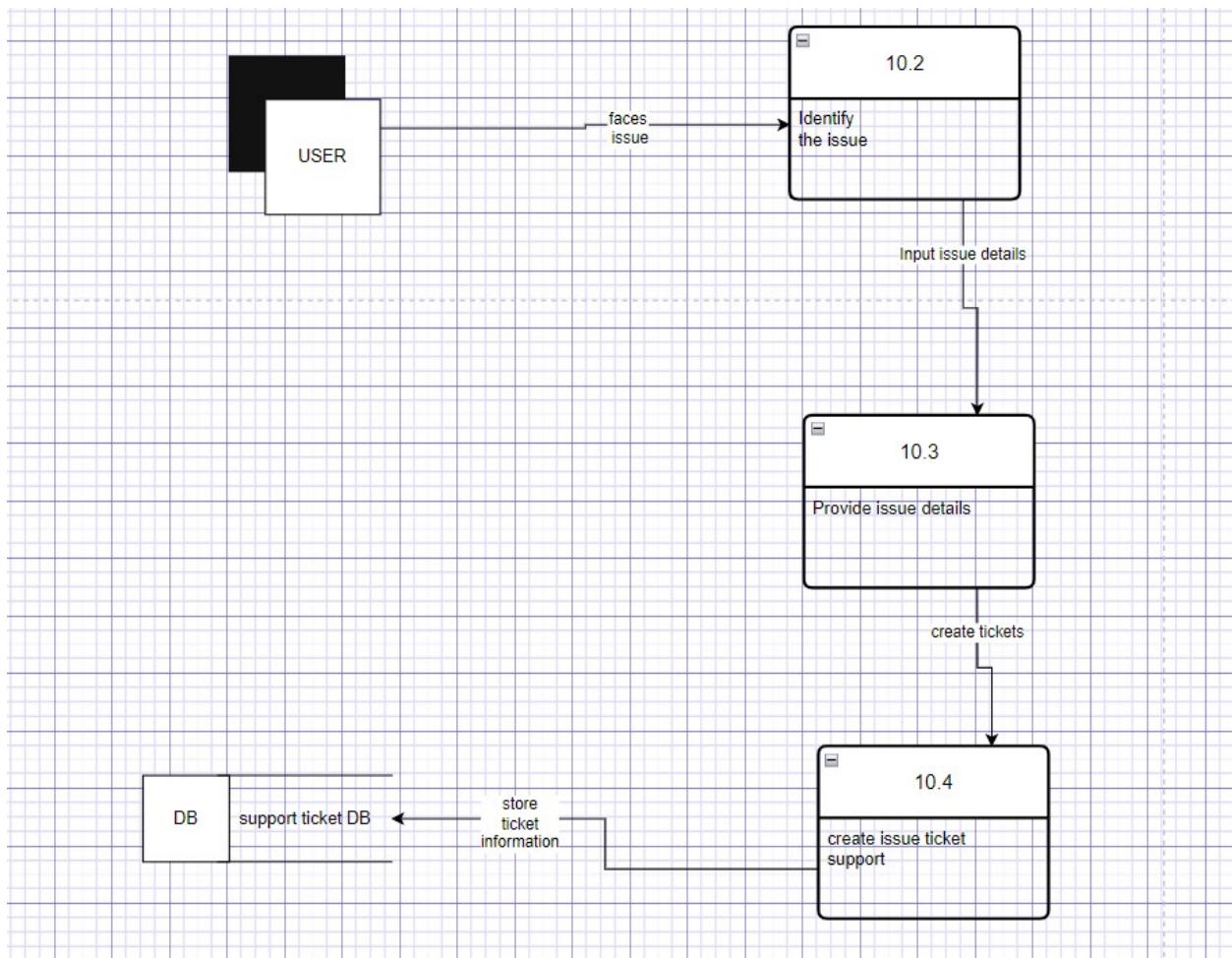
Complete Rent Payment



Give Ratings

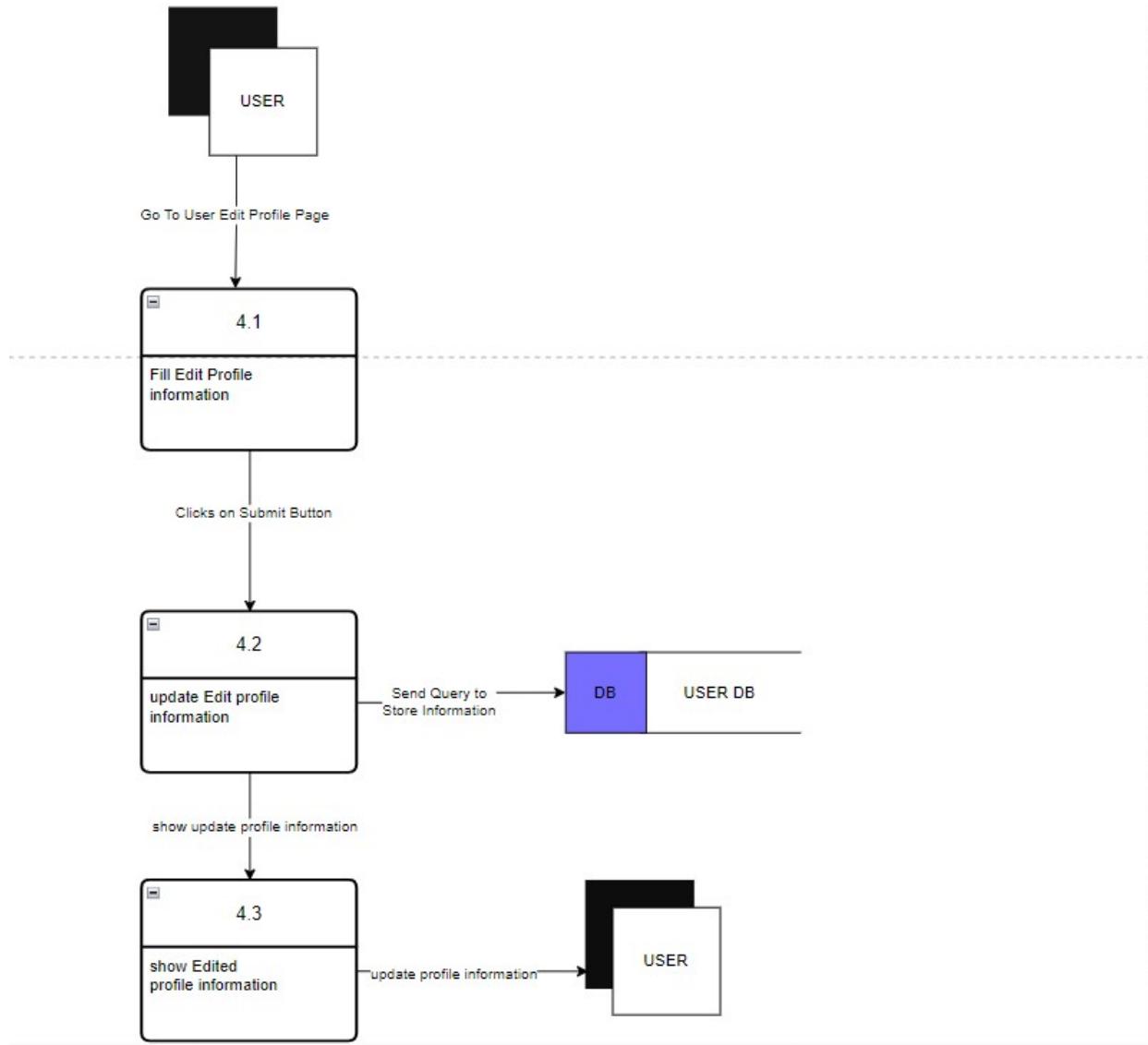


Create Support Ticket

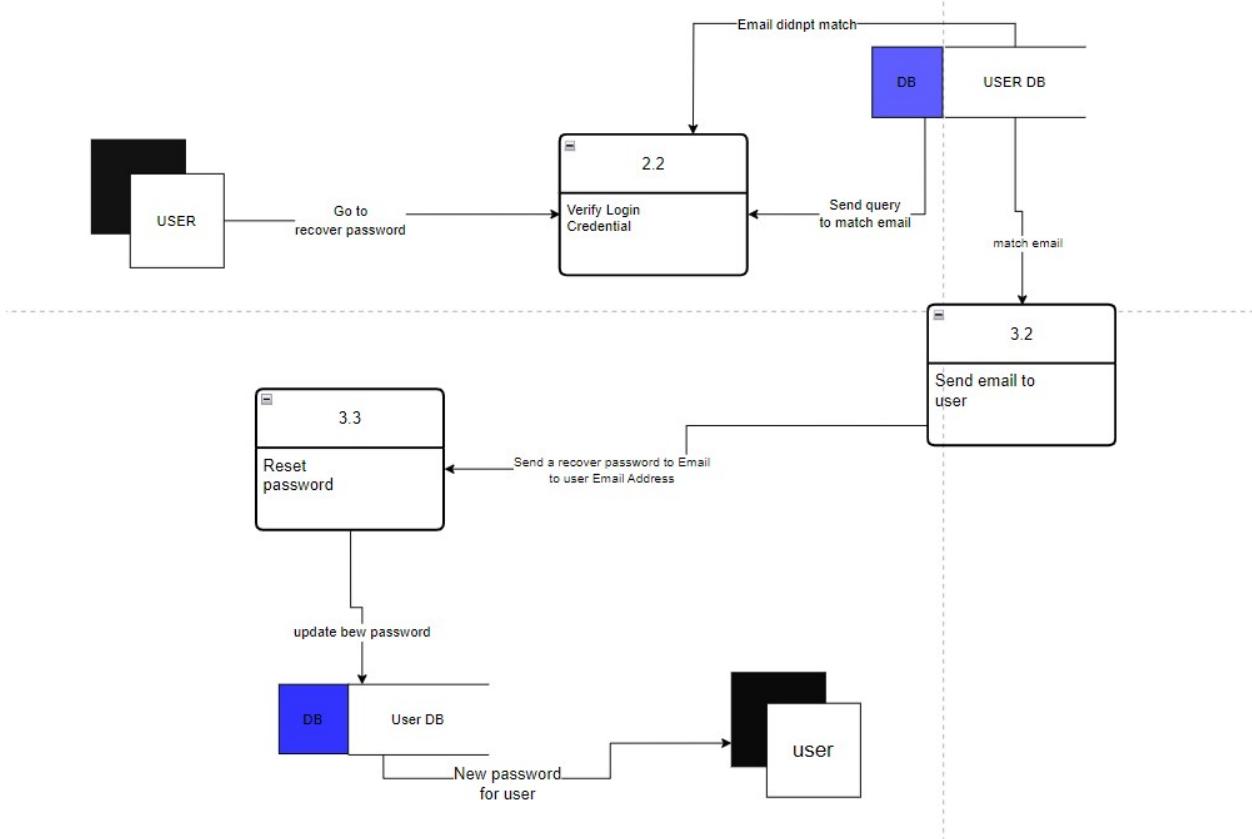


Physical Data Flow Diagram

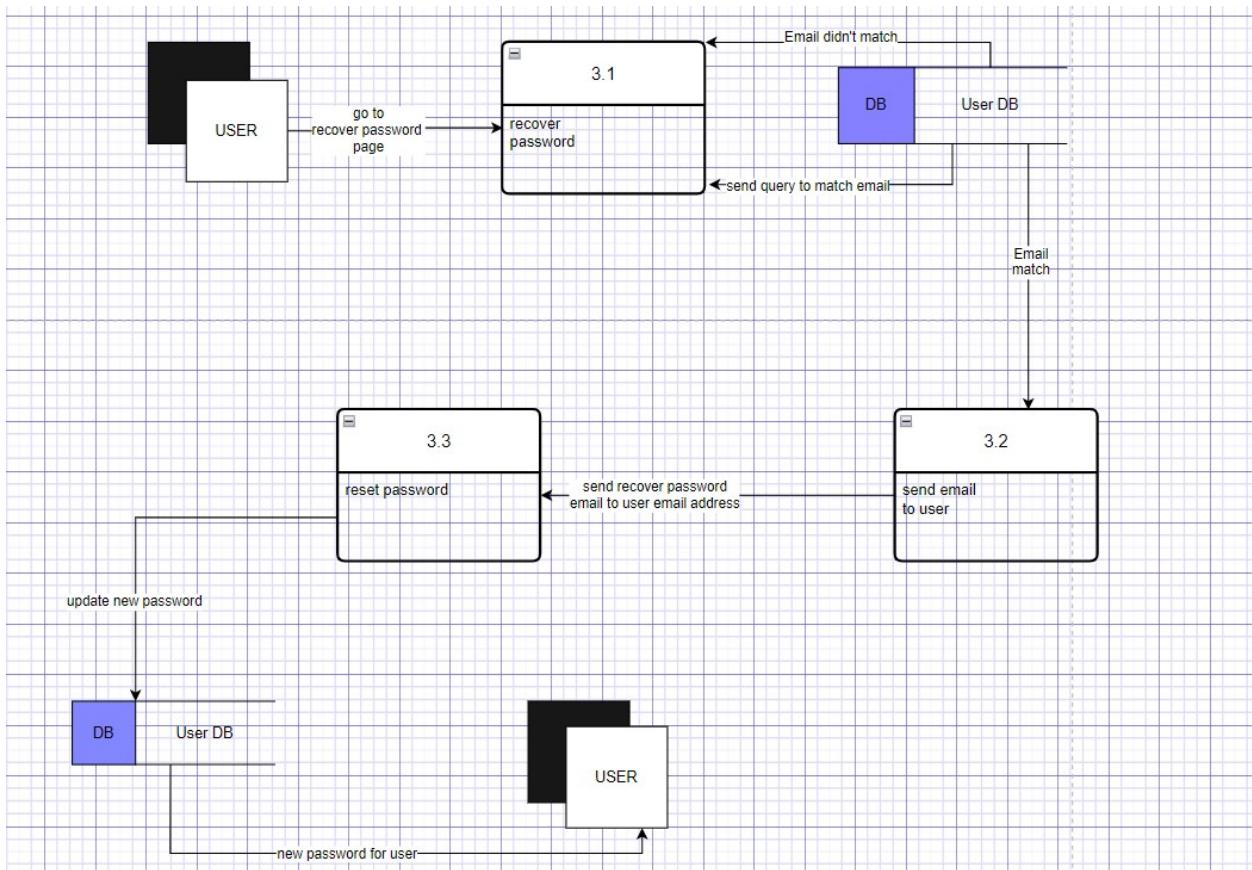
User Signup



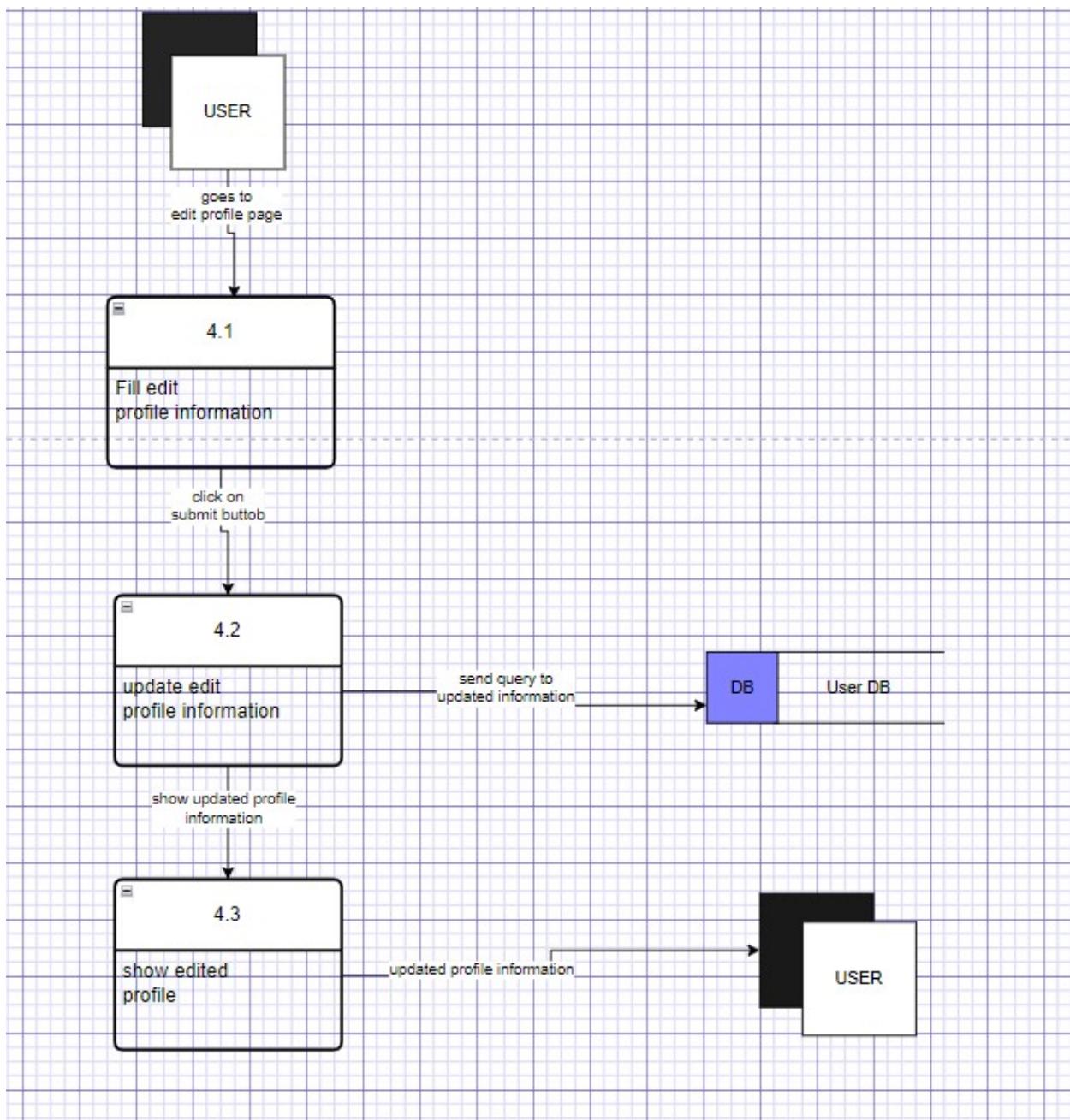
User Login



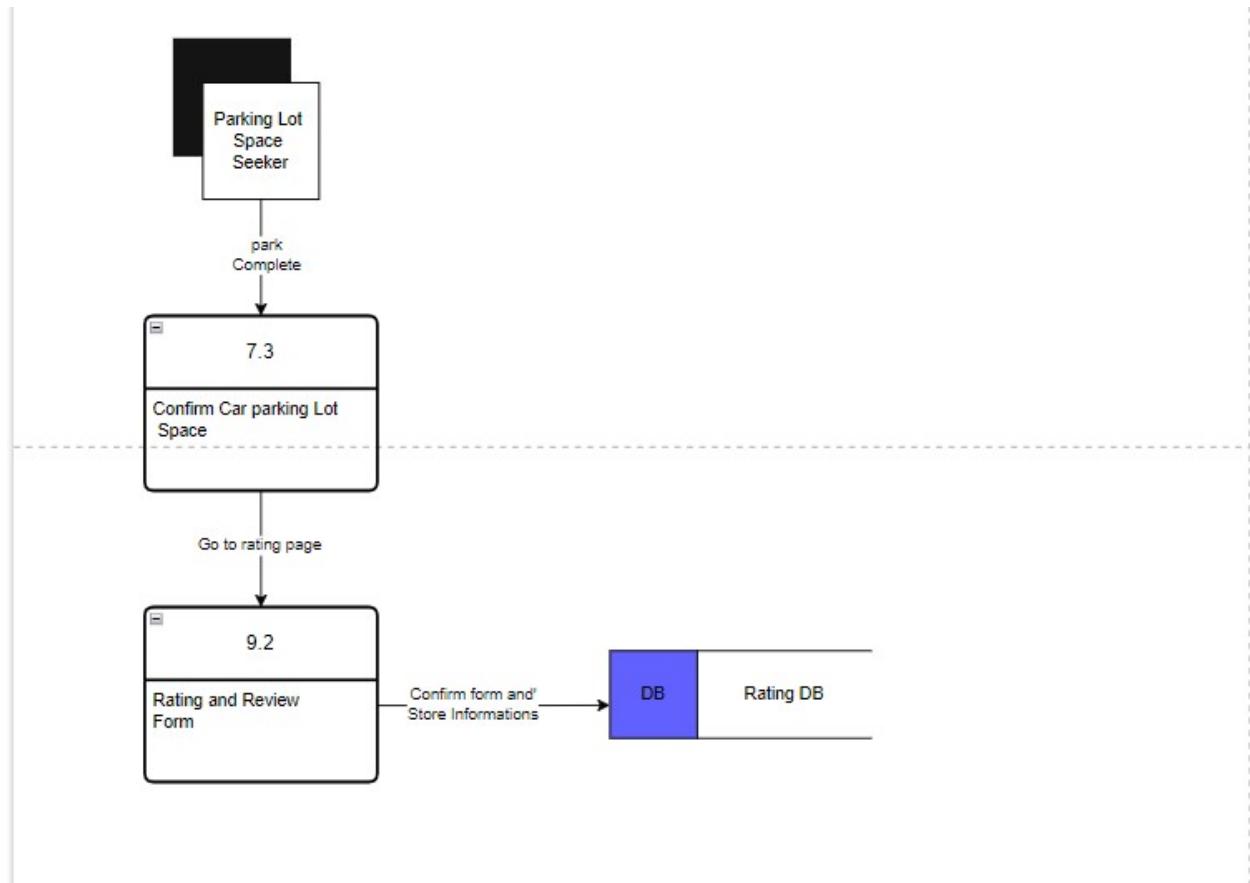
Recover Password



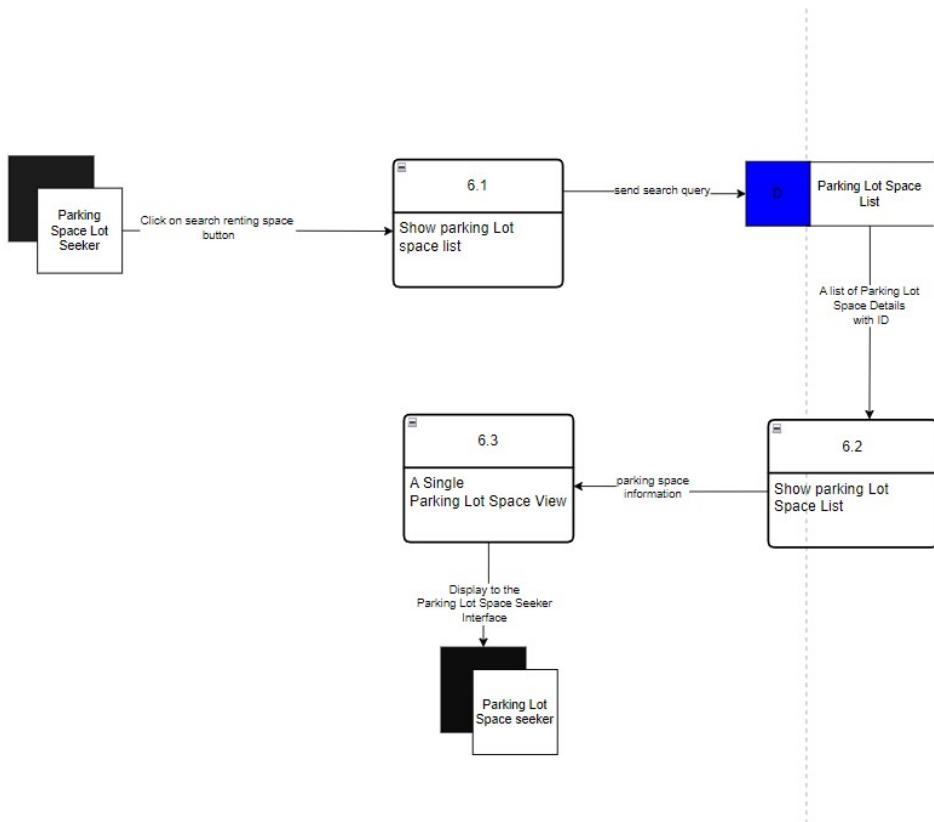
Edit Profile



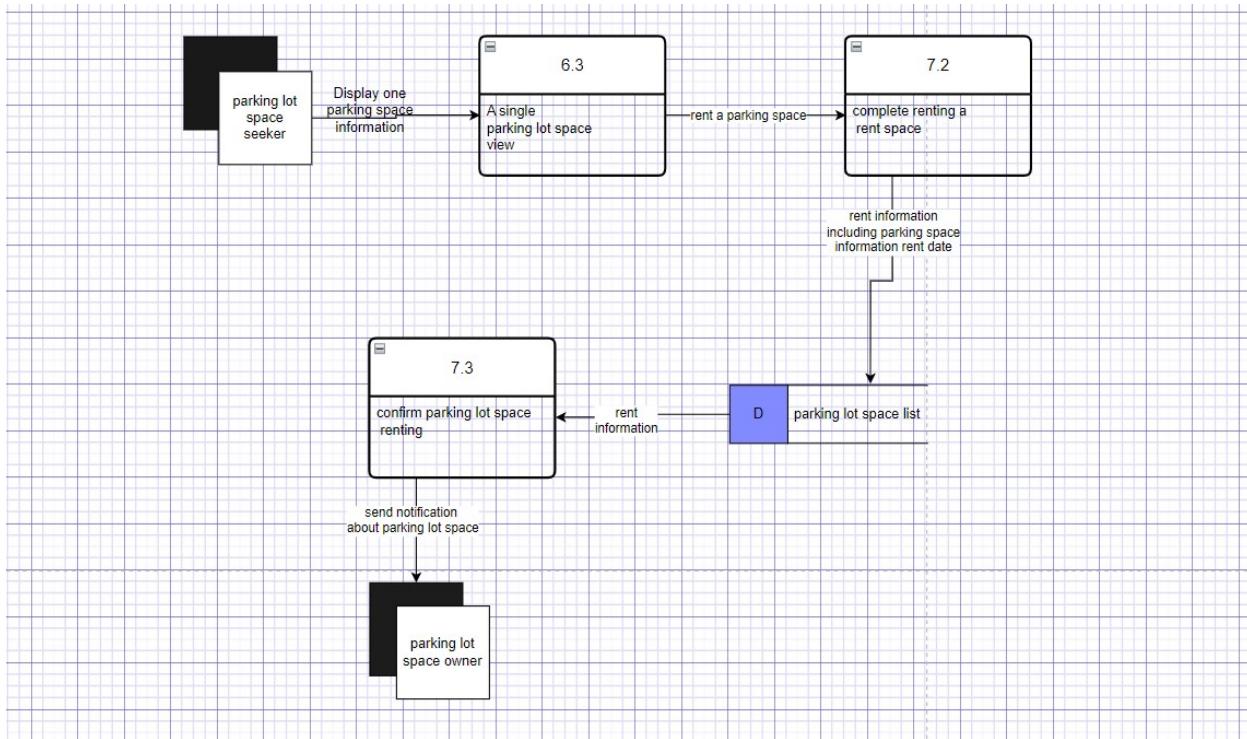
Post a New Parking Space:



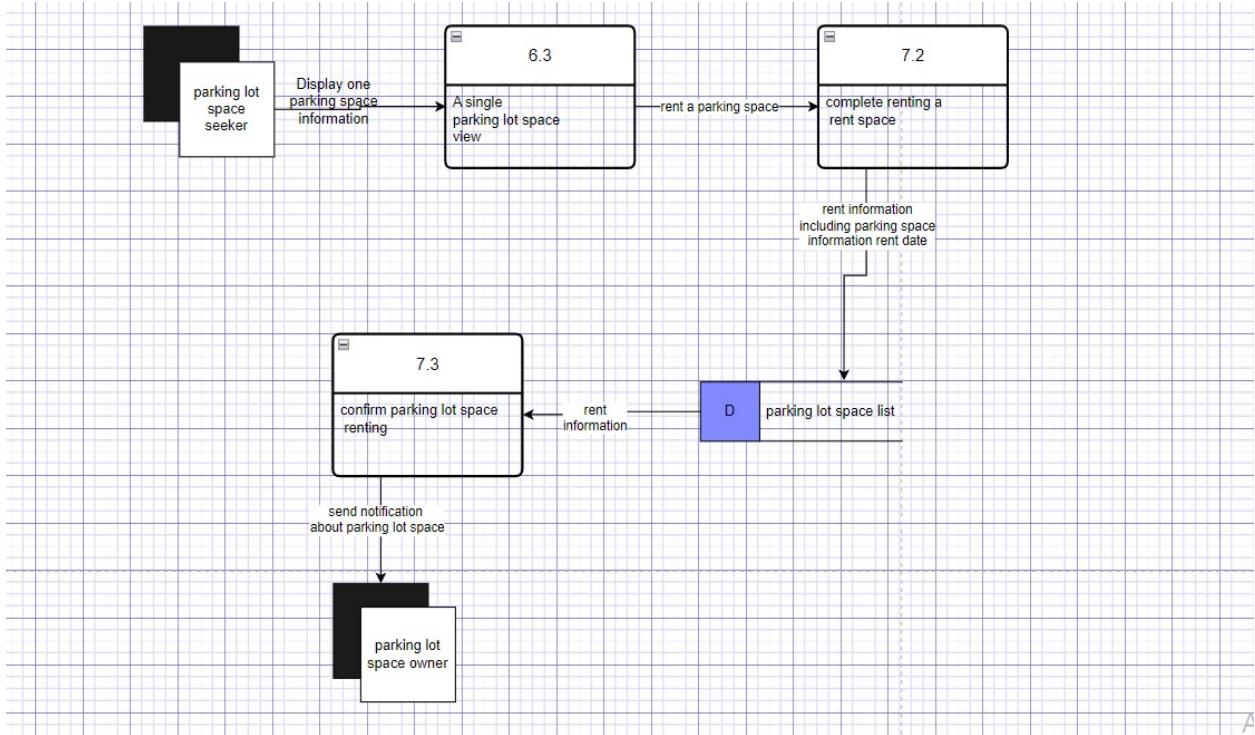
View a Single Parking Lot Space Details



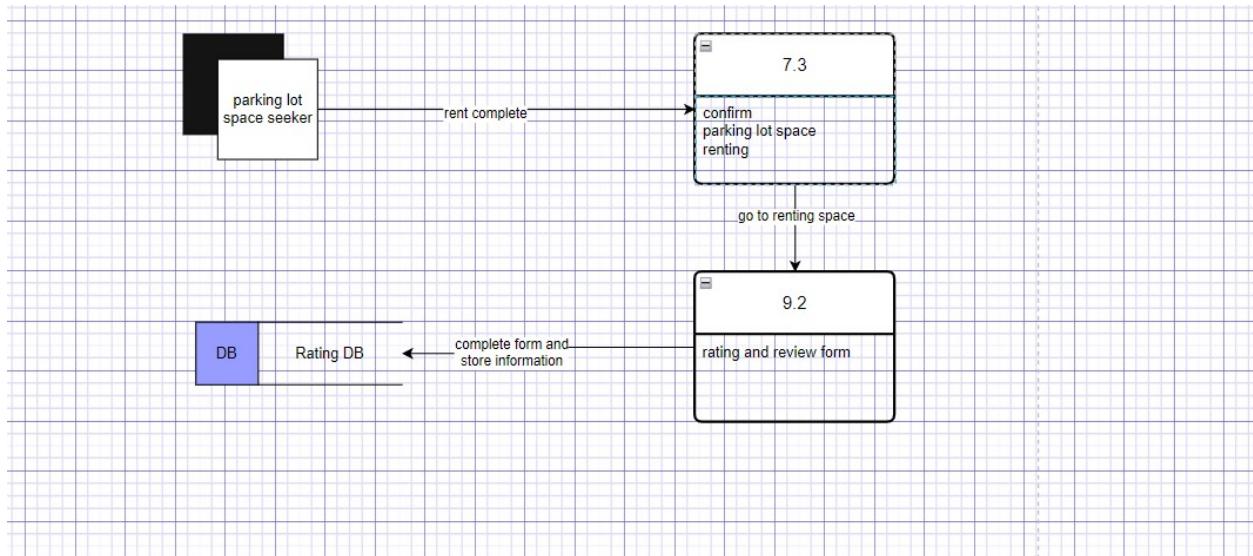
Rent a Parking Space:



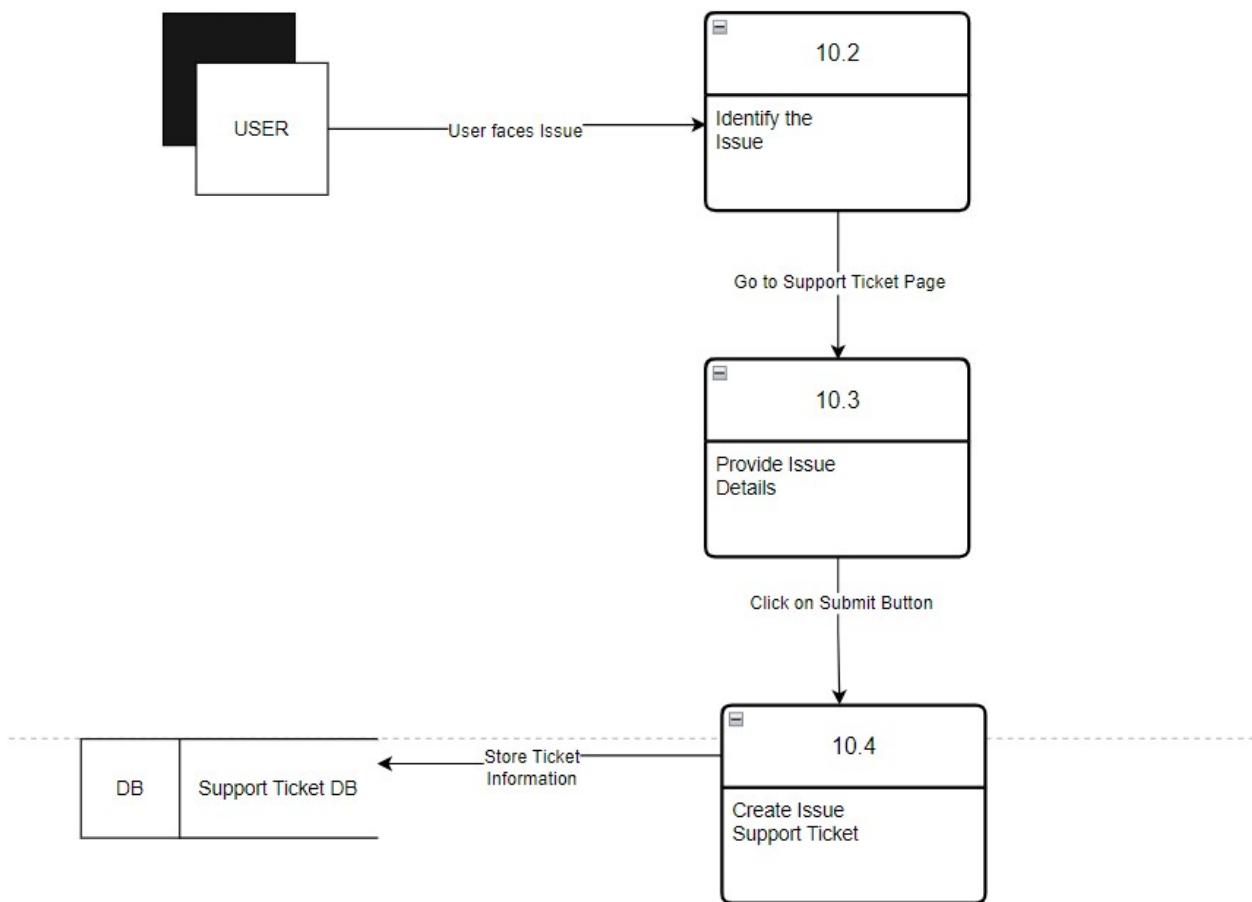
Complete Rent Payment



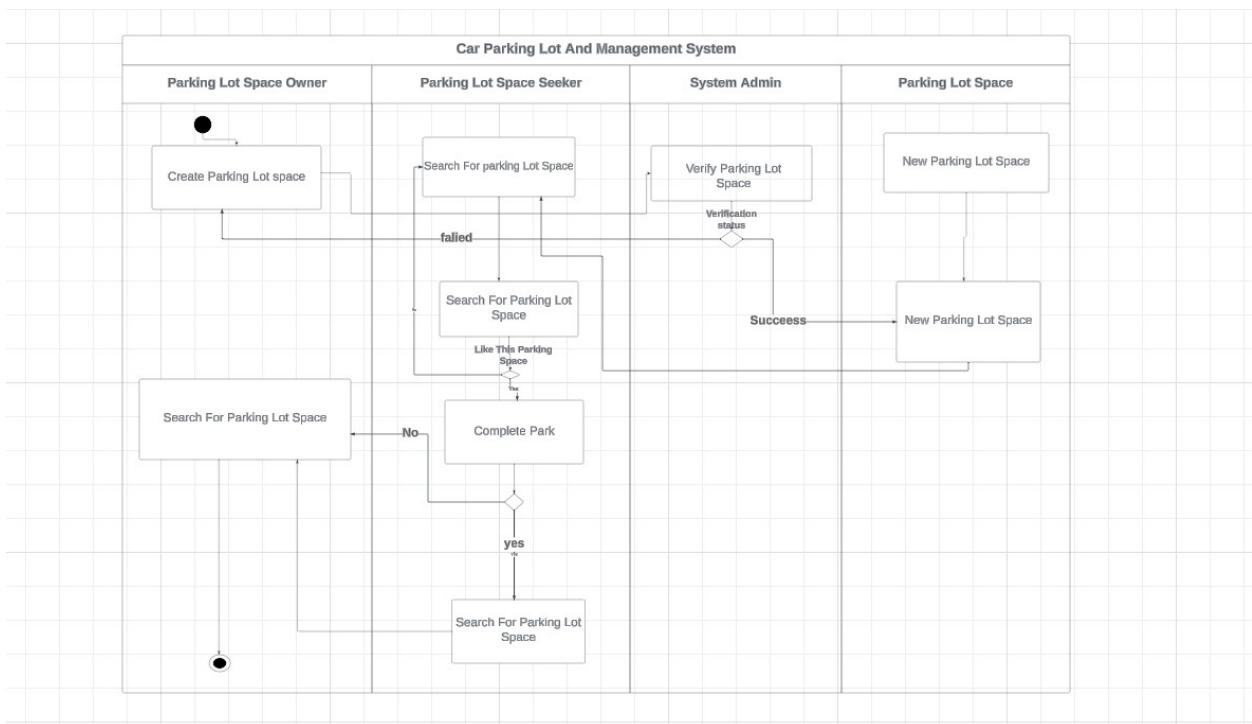
Give Ratings:



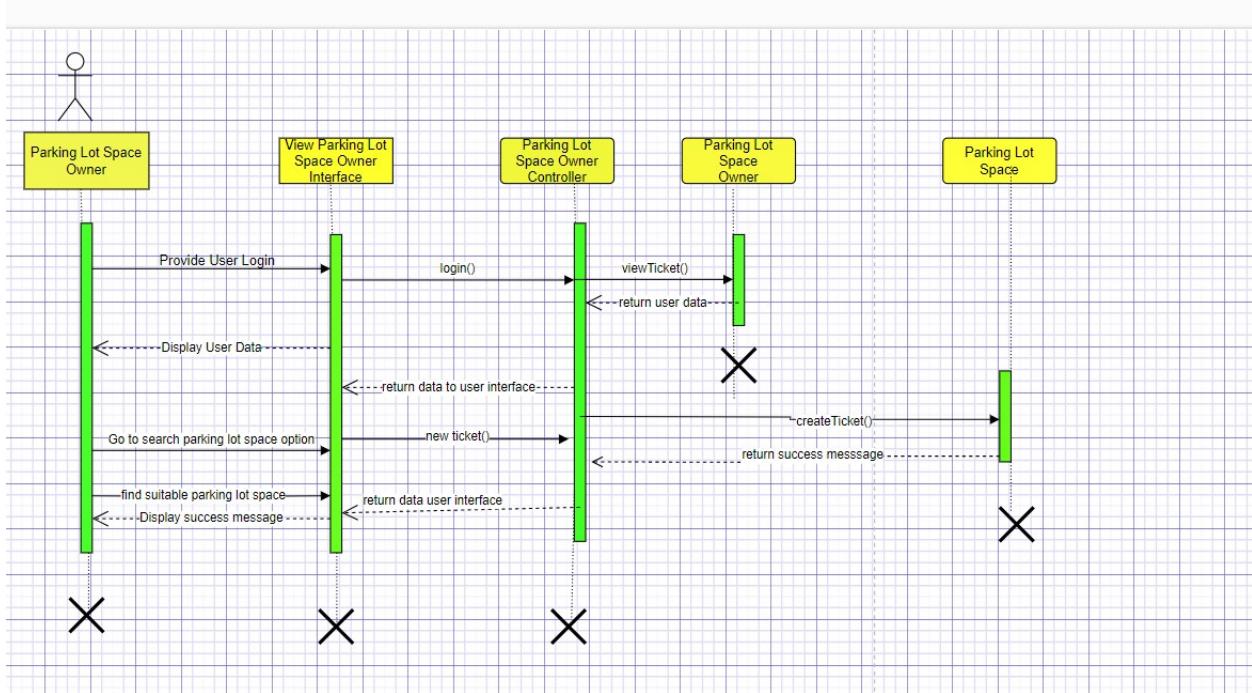
Create Support Ticket:



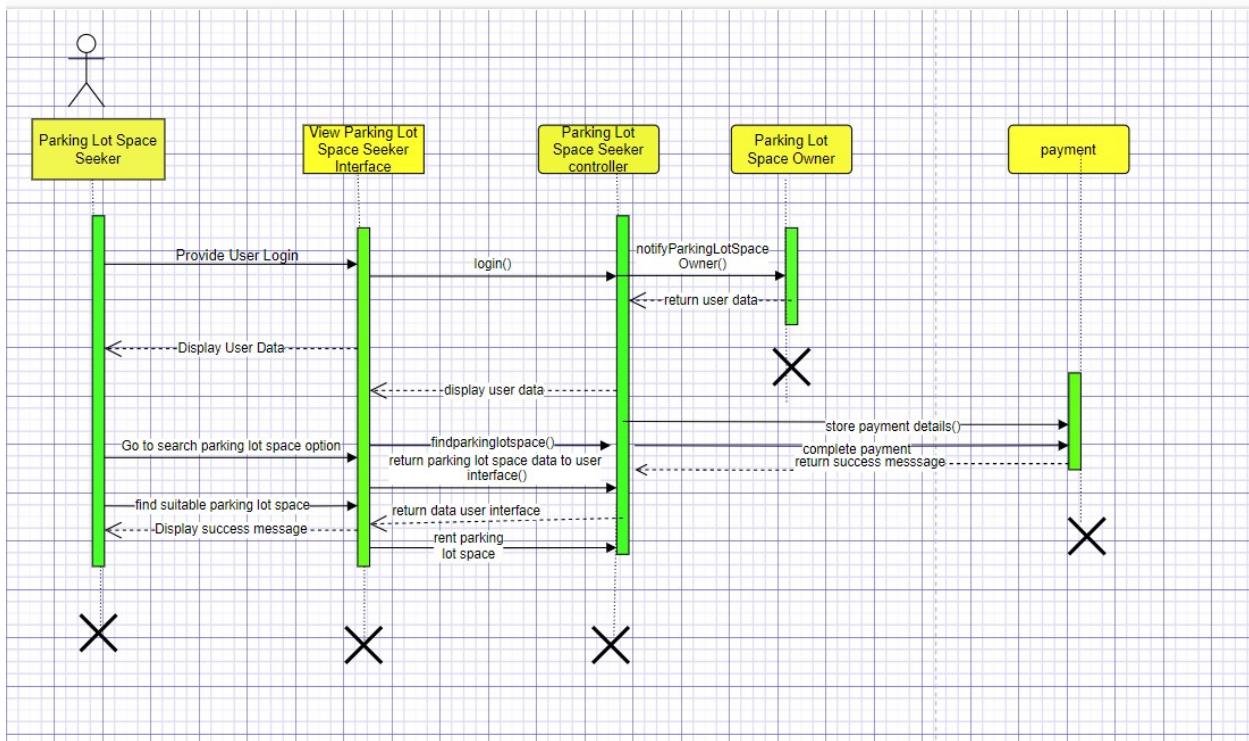
Activity Diagram



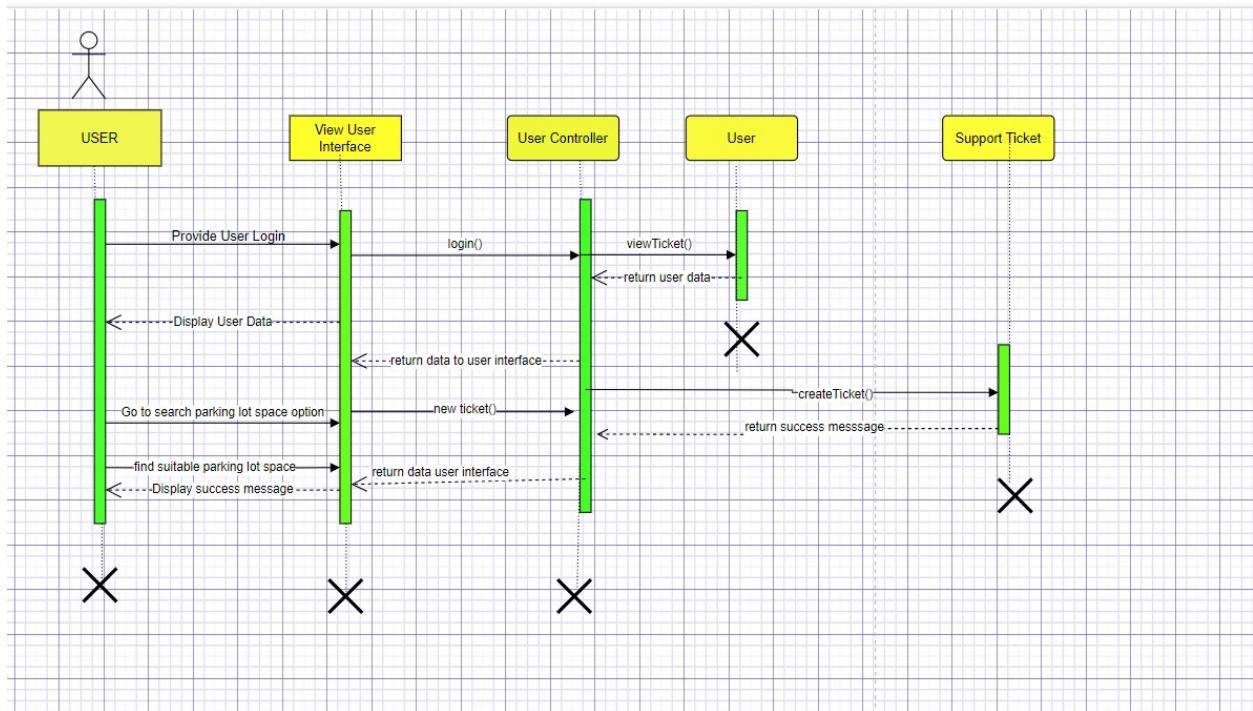
Sequence Diagram: Post a New Parking Lot Space



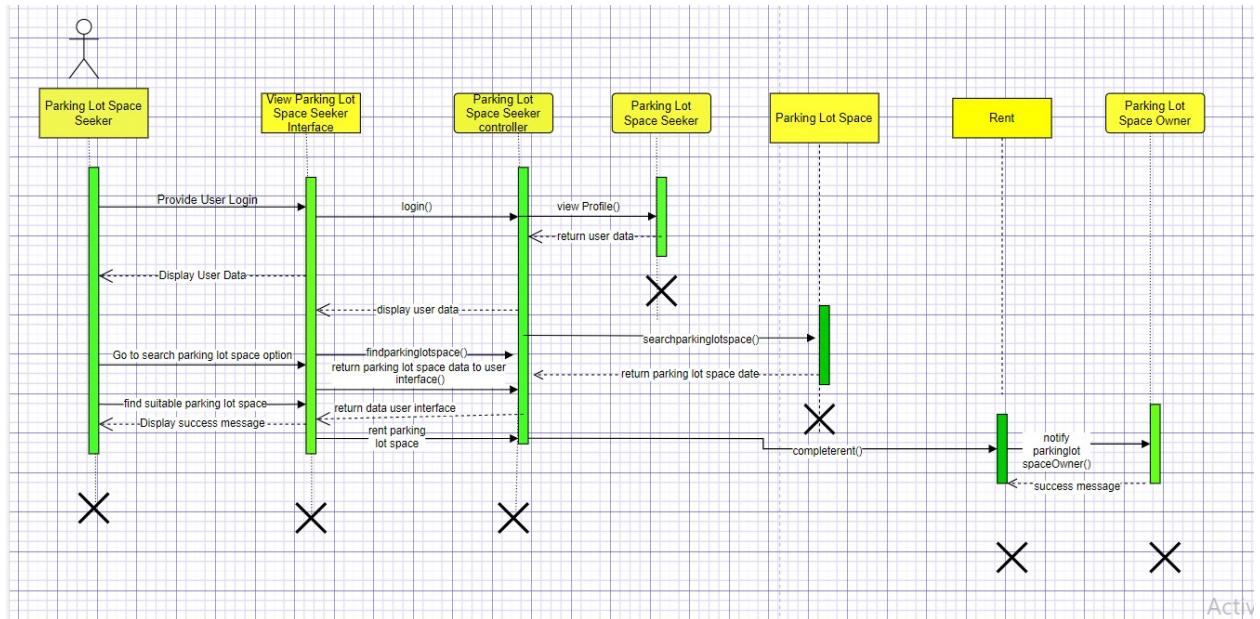
Complete Renting Payment



Create Support Ticket

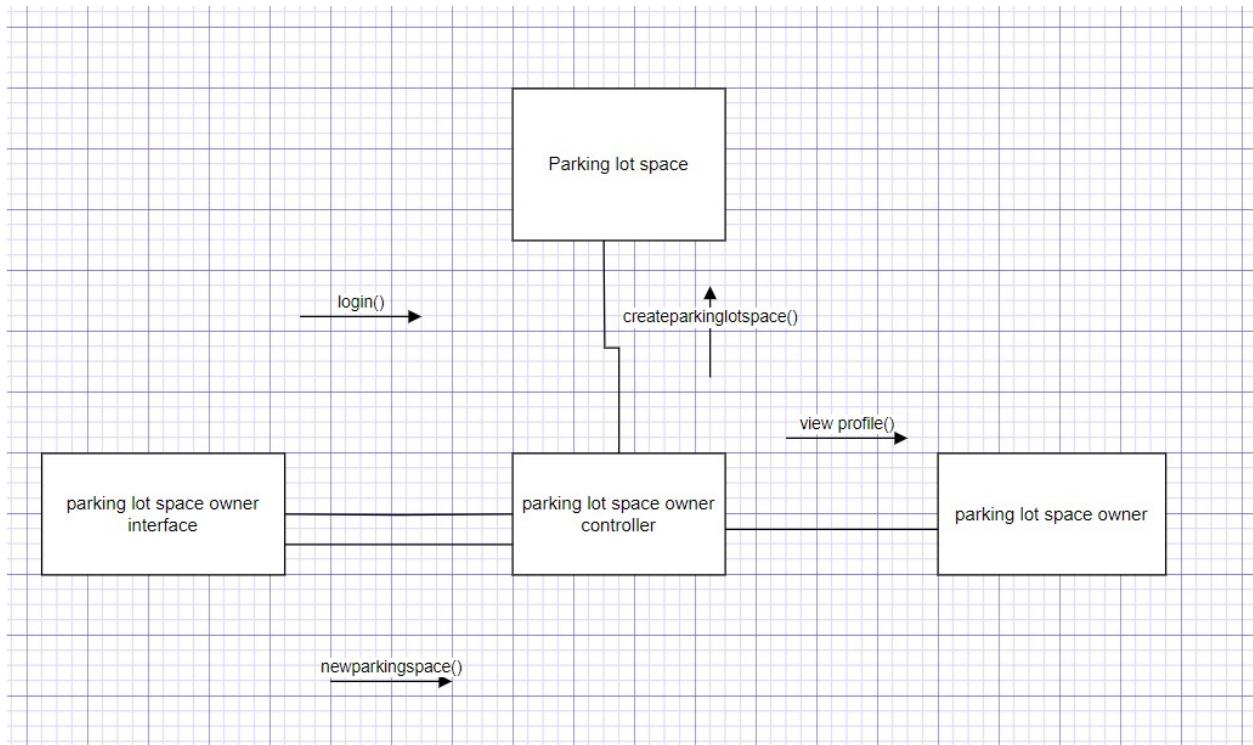


Complete Renting a Parking Lot Space

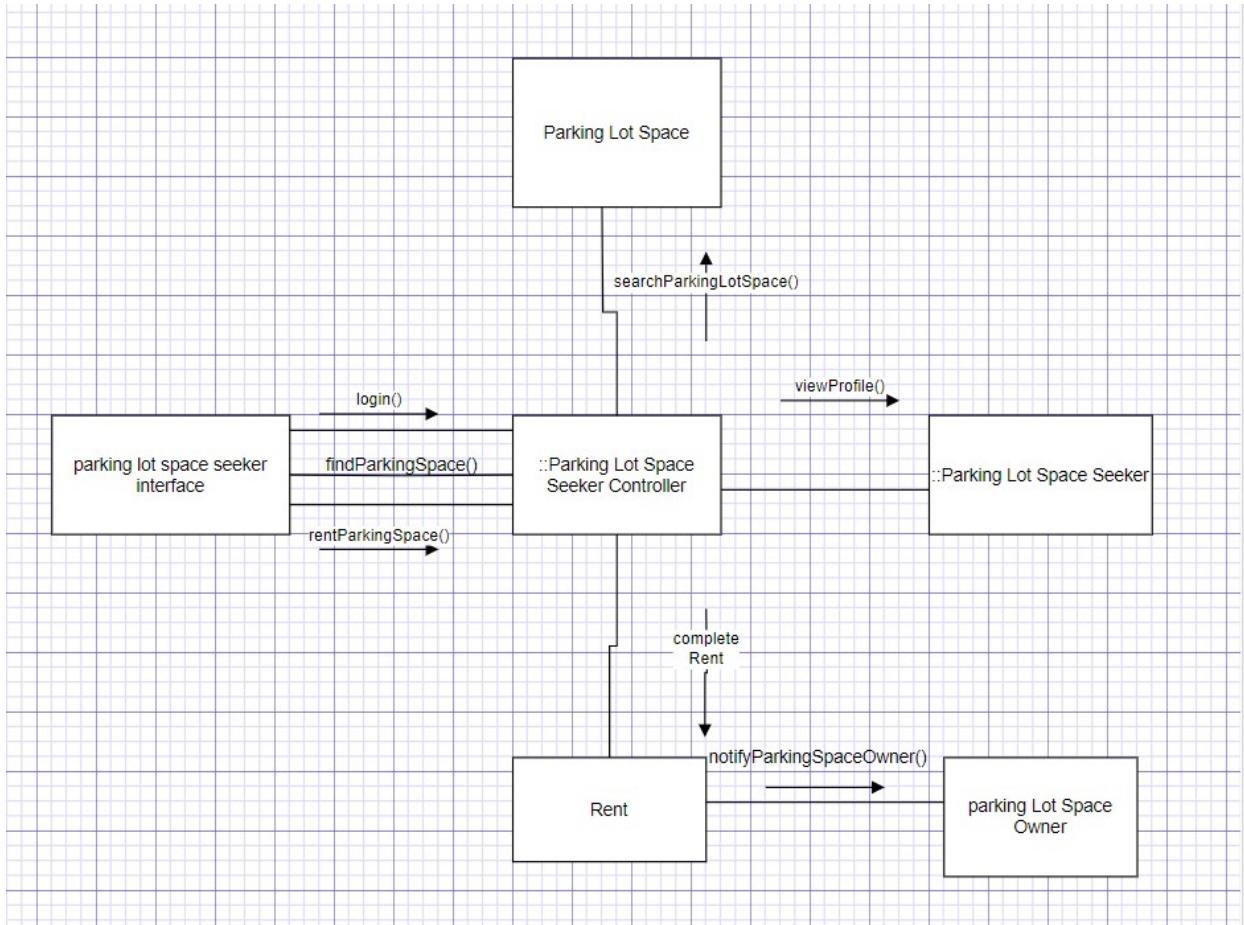


Communication Diagrams

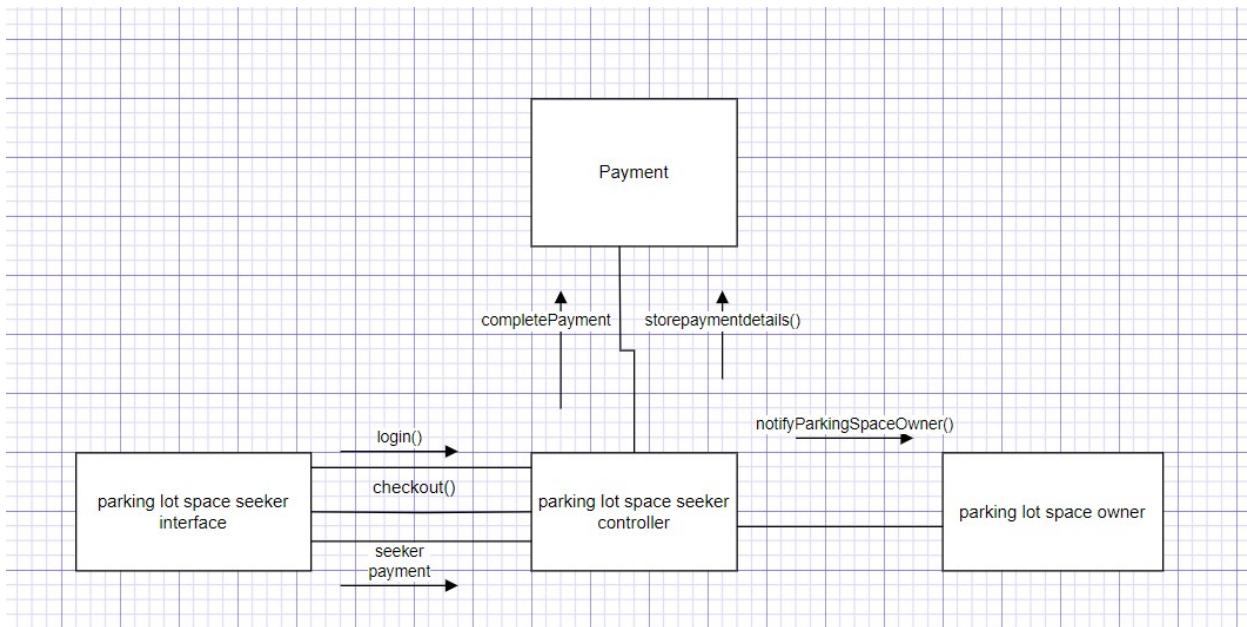
Post a New Parking Lot Space



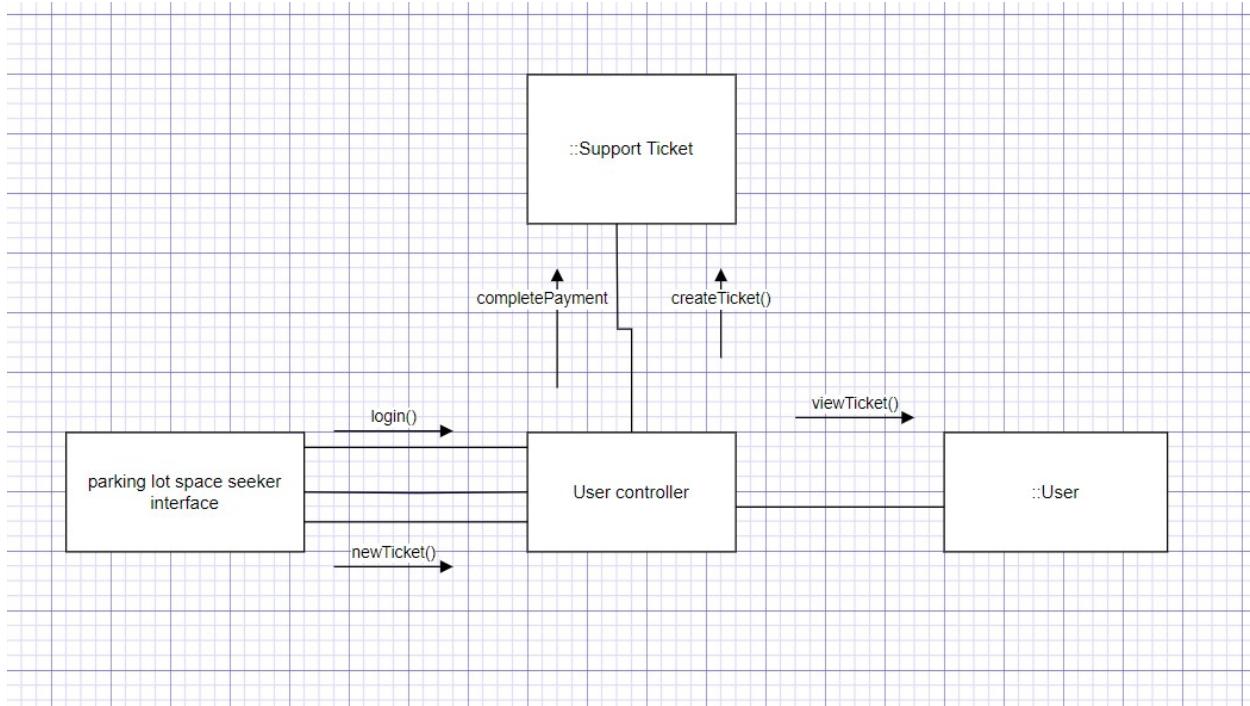
Complete Renting a Parking Lot Space



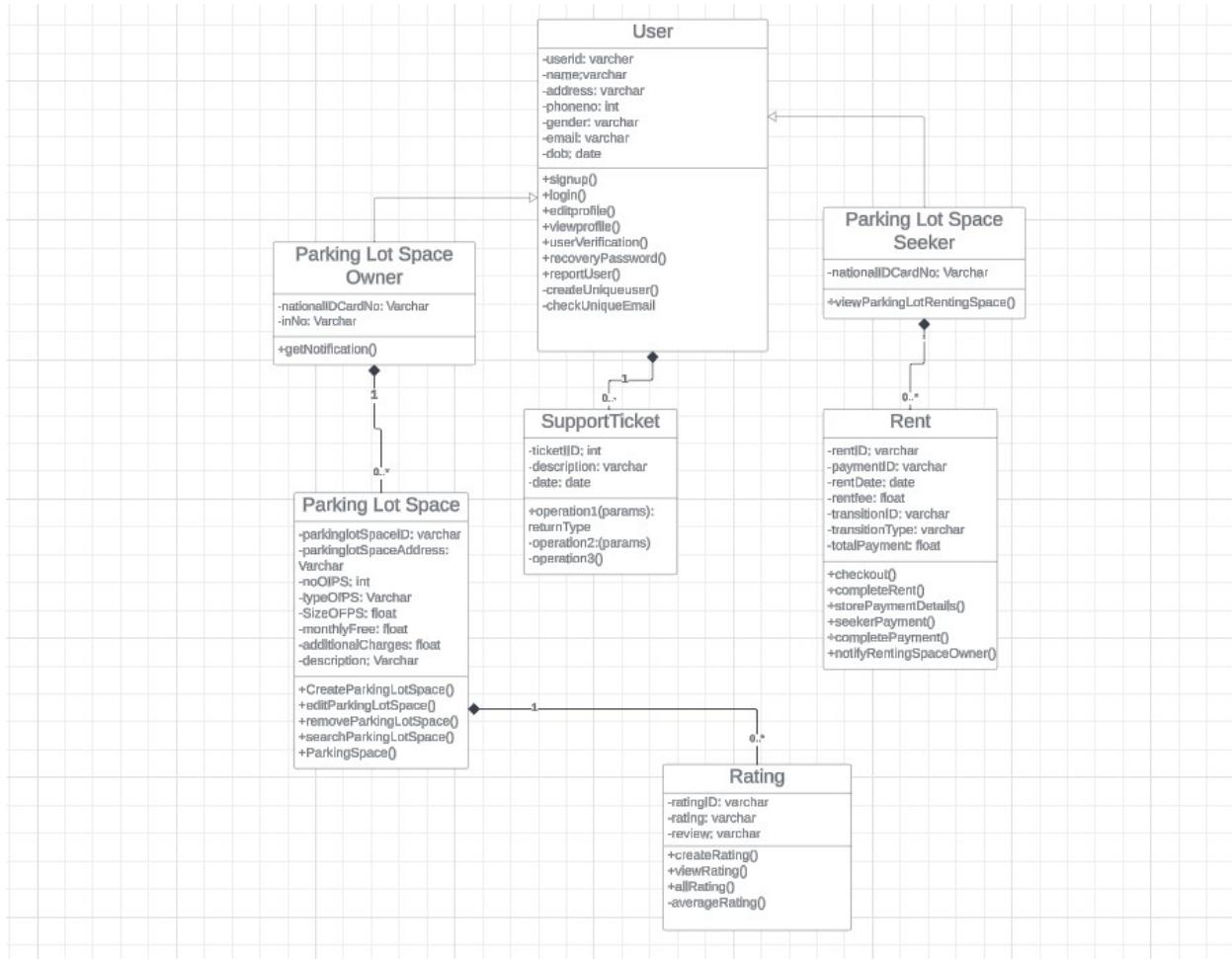
Complete Renting Payment



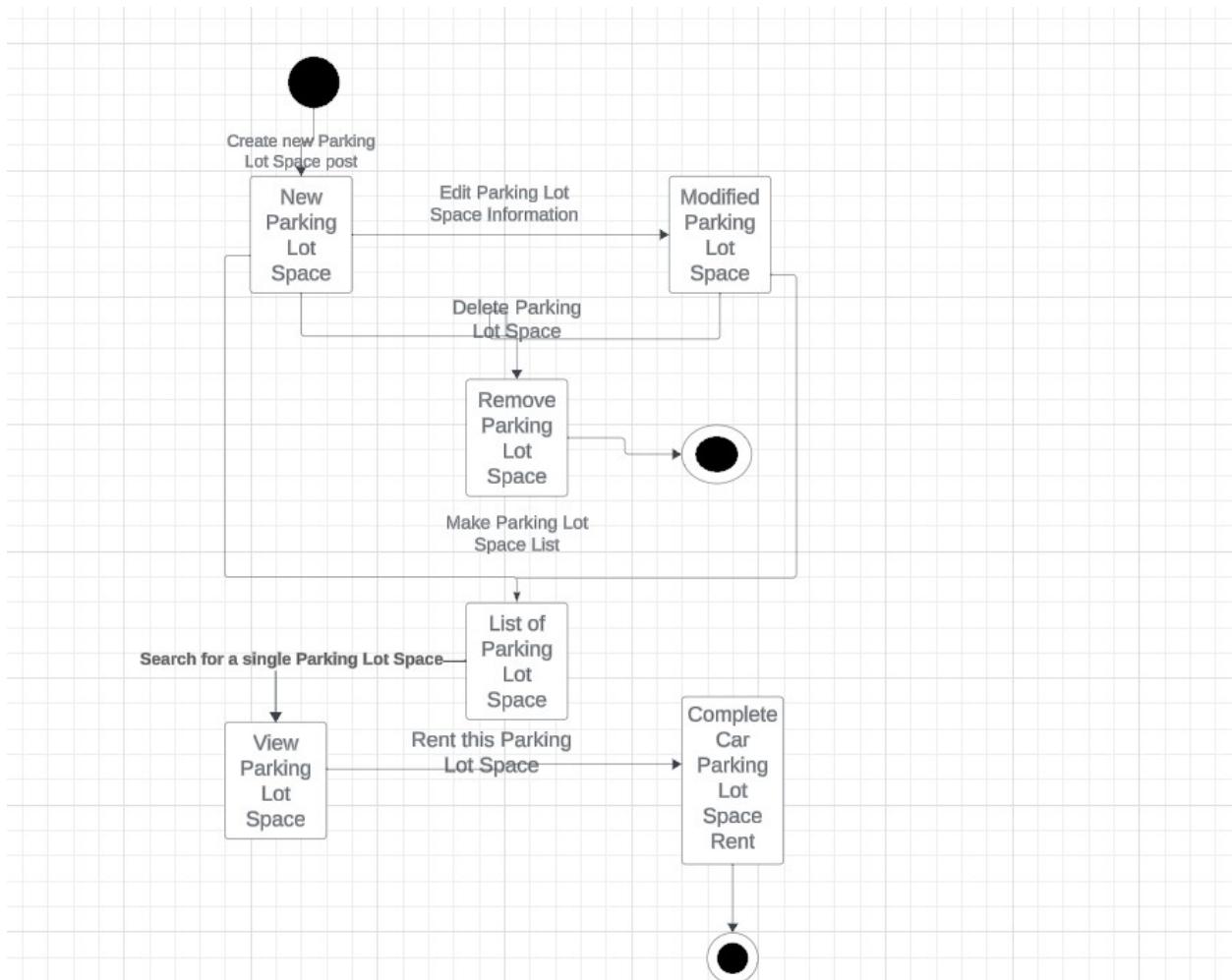
Create Support Ticket



Class Diagram:



Statechart Diagram:



CRUD Matrix:

Activity	Owner	Seeker	Parking lot Space	Rent	Rating	Payment	Support Ticket
User Signup	C	C					
User Login	R	R					
Edit Profile	U	U					
Recover Password	U	U					
Post a new parking Lot space	U		C				
Search parking Lot space			R		R		
Edit parking			U		R		

Lot space Info							
Remove parking Lot space			D		D		
Rent a parking Lot space	U	U	U	C	CRU		
Rent Payment						C	
Give a review or ratings					C		
Notify parking Lot space owner	U						
View rented parking Lot space			R	R	R		

Create Support Ticket							C
-----------------------	--	--	--	--	--	--	---

Section 5

Structure English pseudo code for the system

Creating A New User Account

```
IF User Email is unique THEN
    IF User Password has more than 5 characters THEN
        IF User age is greater than 18 THEN
            Create New Account
        ELSE
            Send an Error Message
        ENDIF
    ELSE
        Send an Error Message
    ENDIF
ELSE
    Send an Error Message
ENDIF
EXIT
```

User Login

IF Inputted User Email and Password matches THEN

 Send OTP to User Mobile Number

 IF Inputted OTP Matches THEN

 User Logs into Account

 ELSE

 Send an Error Message

 ENDIF

ELSE

 Send an Error Message

ENDIF

EXIT

Recover Password

IF InputtedUser Email and Email match THEN

IF Inputted User Phone Number and Phone Number
matches THEN

Send Recover Password Email

ELSE

Send an Error Message Password

ENDIF

ELSE

Send an Error Message

ENDIF

EXIT

Create a Parking Lot Space Post

IF Parking Lot Space Owner Wants to Create a Parking Lot Space Post THEN

Parking Lot Space Owner Inputs Parking Lot Space Details

IF Parking Lot Space Details is Valid THEN

Parking Lot Space Post is Successful

ELSE

Send an Error Message

ENDIF

ENDIF

EXIT

Rent a Parking Lot Space

Parking Lot Space Seeker Search for a Parking Lot
Space

IF Parking Lot Space Seeker Like a House THEN

Parking Lot Space Seeker Will See Parking Lot
SpaceDetails

IF Parking Lot Space Seeker Find It Suitable THEN

Rent This Parking Lot Space

ELSE

Go Back and Keep Searching Parking Lot Space

ENDIF

ELSE

Keep Searching

ENDIF

EXIT

After Rent A House

Add Rent Information to Rent Database Table

Update Rent Parking Lot Space Information at Parking Lot Space Database Table

Send Notification to Parking Lot Space Owner

Request Parking Lot Space

IF Parking Lot Space Not Available THEN

Parking Lot Space Seeker Will Request Parking Lot Space

IF Requested Parking Lot Space Available THEN

Send Notification Available to Parking Lot Space Seeker

ELSE

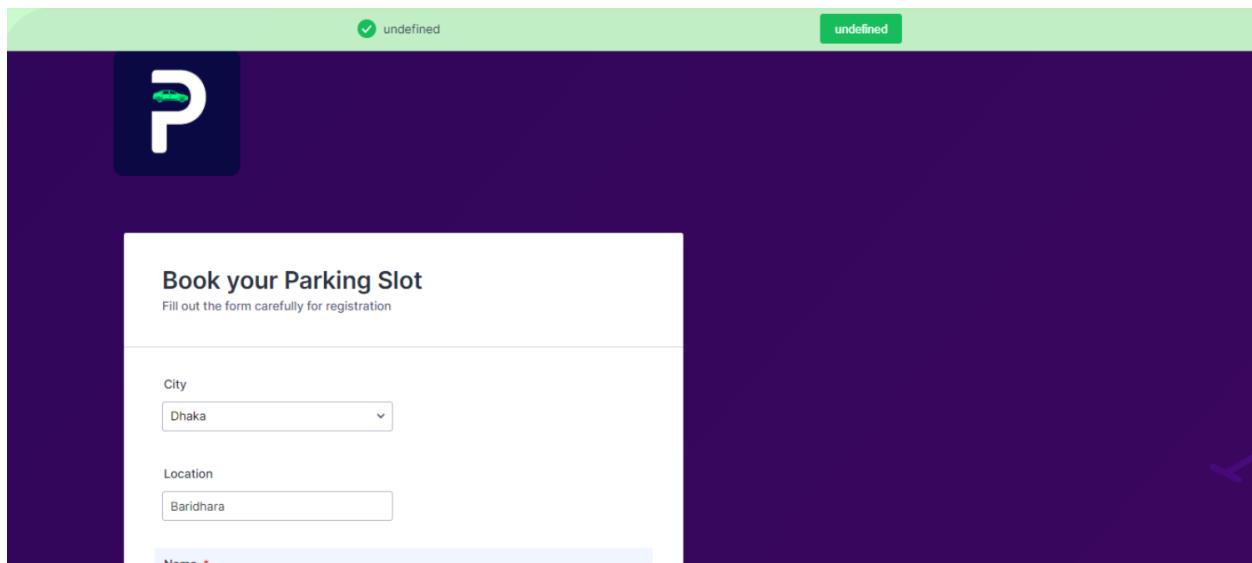
 Send Notification Unavailable to Parking Lot
 Space Seeker

ENDIF

ENDIF

EXIT

Prototype the User Interface:



✓ undefined

Name *

First Name: Anannya
Last Name: Gourab

E-mail *

sakimuzzaman108@gmail.com
example@example.com

Phone Number *

(880) 164-4444
Please enter a valid phone number.

Vehicle Type

4 Wheeler

Vehicle Registration Number :

dha-15-12-768

undefined

✓ undefined

Vehicle Model

toyota Corolla

Class

B

Preferred Renting Slot Number** (1-20) : **depend on availability

15

Parking Date

11-28-2023 

Date

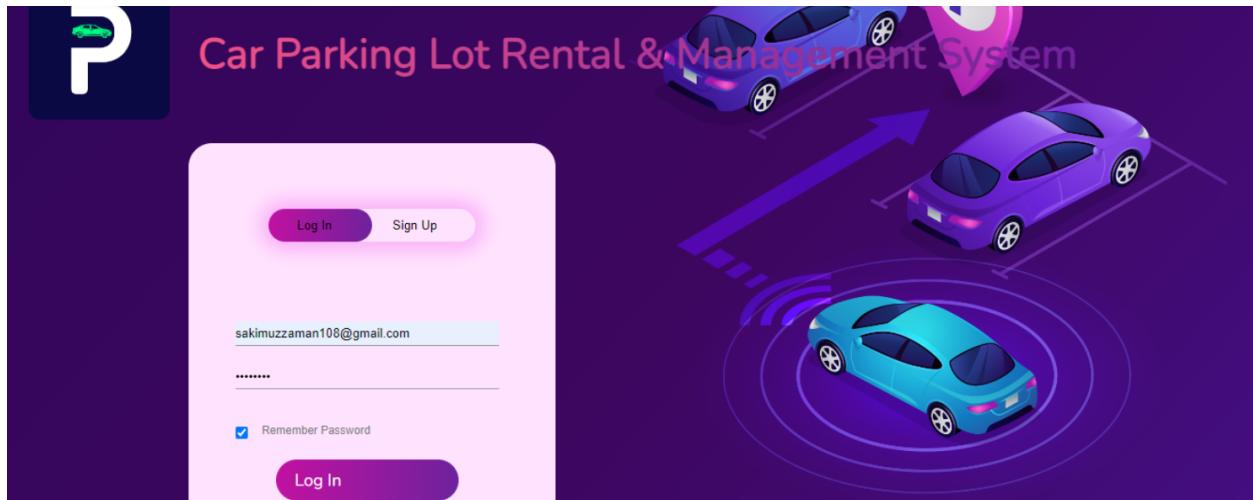
Renting Time

10:00 PM 

Hour Minutes

Book Renting Slot

undefined



Why Choose Us

HOME

X

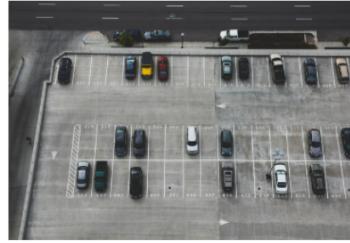
FEATURES

GALLERY

ABOUT US

Reliable Parking

EAT, SLEEP, PARK, REPEAT! It's as easy as that at CPLRMS. At Car Parking Lot Rental & Management System(CPLRMS), we pride ourselves on being the most reliable car parking WebApp at no compromise of quality.



Pre Booking Online

Being on-time and making your parking hassle-free is our priority! Book your parking slots and zones in advance with our pre-online booking system to ease your way in getting your parking lot without any sweat.

Affordable Cost

Every single one of us deserves access to quality and standard renting. To get it at an affordable & cheap cost is an added bonus!

GALLERY

Some Renting Spots



Our Team Members



Md.Sakimuzzaman

Project Manager



Ananna Gourab

Project Lead





Asad Arik
Technical Lead
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