		Difficulty level legend:								
		2 : Low difficulty								
		3 : Medium difficulty								
		5 : Medium difficulty with a risk of unplanned difficulty 8 : High difficulty								
		u - right unicusy								
User Story Title/Task Title	Description/Associated Tasks	Difficulty Level (0,1,2,3,5,8)	Priority Risk	Assign	Sprint					
ASK-1.1: Set Up the database for Vehicles	-create a database for vehicles -cooulide the database with vehicles	8 - This would require a fully or almost fully functional database that can be used by the front end learn within	High Low	Jad						
	kup - Gather inspiration from multiple Car Rental websites - Design a mock-up for the Website logo and all pages of the Website - Review mockup with the team and make fina			Sara	2					
	<ul> <li>Create a component for a search bar and add it to the home page that includes the desired location, from and until dates of the reservation and search icon.</li> </ul>									
TASK-1.3: Implement search bar on Home page	Once the search button is clicked, the user is redirected to the Catalog page where all matching search results are displayed.     Handle the incoming HTTP requests	3 - Some components can be found for this feature	Medium Low	Irina	2					
ASK-1.4: Implement search bar on Home page	Code the search mechanism in backend     Successfully manipulate the information in the database and return the sorted information.	3 - some backend code or component can be found to execute this feature, however medium strength sinci	High Low	Hossam	2					
	Create Filter Component     Immilient ruse inflamentations for selection and reagain filters									
TASK-1.5: Implement Filter Functionality on Cata	- When a filter is applied, the search results are updated accordingly on the UI og P- When the Filter option is cleared, displayed search results are reset to original state without any filters	5 - Some errors in queries might occur, need to make sure to send and receive proper requests to backend	Medium Medium	Boudour	2					
TASK-1.6: Implement Filter Functionality on Cata	Check the filtering options with frontend.  pp - Code the logic for the database filtering system.	3 - addition of new filters to already set database, might be time consuming if large database	Medium Medium	Enrique	2					
	- Create a "Carousel" component									
Task-1.7: Configure Carousels for browsing optio	Create a new component for the Program window	2 - Need to ensure proper filtering of cars, implementing a responsive and scalable carousel might be a challenge.	Low Low	Sara	2					
	- Implement Role-based authentication: If the user is CSR or System Admin. only allow loo-in with their existing credentials									
	else, regular customer can either looin with his credentials or create a new account									
	<ul> <li>Handle log-in Form: prompt existing user for "username" and "password", include "Forget Password" option</li> <li>Handle Sign-up Form: prompt new customer for "Full name", "email address", "username", "password", "confirm password"</li> </ul>									
TASK-2.1: Implement Pop-Up for login/ sign-up	Validate user inputs and display error messages gracefully     Create a distribute for users only.	8 - Login is a challenging task and it has to be adaptable for different accounts, incorporate a security check	High Medium	Irina	2					
TASK-2.2: Set-up the database for users	- Each user must have a variable for: name, birthdate, profile picture, rental history	5 - possible issue might arise during storage of profile pictures, and need protection of sensitive information	High Medium	Hossam	2					
	<ul> <li>Write backend code to create an admin account with the specified fields: "Username", "Password", "Role" and stone it in the Users' database</li> <li>Design and implement backend API endocints for CRUD operations on users, vehicles, and reservations</li> </ul>									
ASK-2.3: Set-up admin user account	<ul> <li>Implement authorization logic to check the user's role and permissions when accessing different API endpoints</li> </ul>	2 - Back end functionalities for account will already be set, thus it is just a matter of adjusting authorizations	Medium Low	Enrique	2					
	Determine specific permissions/ access rights associated with each user: Customer, CSR, SystemAdmin     Create separate interfaces and Navigation bars for each user role, failored to their specific needs and permissions:									
	<ul> <li>Customers: can access "My Reservations", "My Cert", and "History", modify and cancel upcoming reservations</li> <li>CSR: can access and confirm "Pending Reservations", access, modify and cancel upcoming reservations.</li> </ul>									
	System Admin: allowed to access all users, vehicles and reservations' details, add a new record, edit, and delete.	5 - mismatch habasan rentantials minht arise								
TASK-2.4: Create user-specific views based on c TASK-2.5: Implement middleware for backend for		<ul> <li>5 - mamatch between credentiats might arise</li> <li>5 - back end is already set up so medium difficulty, however logic handling can be quite meticulous to ensure</li> </ul>	Medium Medium High Medium	Boudour	2					
NON-2.3. Imperior moderna or baselia to	- Implement functionality to detect if the user is logged in when they click "book now."	2 - Sack end is an easy set up so measure unitary, nowever logic menoring can be quite merculous to ensure	ngi mesuiii	Jac	-					
	If logged in, proceed to the reservation form. If not logged in, display the login pop-up									
[ASK-3.1: Promot User to login	<ul> <li>After successful login, redirect the user to the reservation form where they can complete the booking process.</li> <li>Design and implement at "parson icon" for user account management. When the user closes on the parson icon in the top ber, open the login pop-up.</li> <li>Ensure that the user's assission is amittained access pages after login to aveid frequent logins.</li> </ul>	3 - the creation of the pop- up is quite easy to do, the challenge might arise in frontend credentials of the ust	Medium Low	bina						
IASK-3.1: Prompt User to login	Create that the later's session is maintained across pages after login to avoid require logins.  Create a Form component with a summary of Whible details, entered location, dates, checkboxes for adding extra equipment, and text areas for special notes.	3 - the creation of the pop- up is quite easy to do, the challinge might arise in intrituing decentials of the us	Medium Low	TOTAL STREET	- 4					
TASK-3.2: Implement a reservation form interface	<ul> <li>Implement client-side form validation to ensure that required fields are filled out correctly before submitting the reservation</li> <li>Implement functionality to submit the reservation form data to the backand API endpoint for processing</li> </ul>	3 - form handling like such have been done before in previous projects, however filtering with backend might	Medium Medium	Boudour						
		3 - some previous databases will already be set, so it will be easy to implement, medium difficult because of		Enrique	2					
TASK-3.4: Implement middleware for user permis	sions on reservations	8 - user permissions are a very meticulous detail to configure and debug , the use of middleware will be don't		Hossam	2					
	<ul> <li>Design Reservation Status Component: show the status in a visually clear format, such as a badge or a labelled text</li> <li>Display the reservation status as "Pending" immediately after the user submits a reservation request</li> </ul>									
TASK-3.5: Design and Code the reservation stat.	s on - Update the reservation status to "Confirmed" when the CSR approves the request. This should trigger a notification to the user's email address	3 - the reservation tag labeling is quite easy in itself, a posible challenge in the automated email communication.	Medium Medium	Irina	2					
	Create "MyReservations" component     Implement logic to fetch existing reservation data from the backend API									
TARY 4.1: Assess minima reconstitute on quater	<ul> <li>Populate the reservation display component with its data: ID. date, location, and status.</li> </ul>	5 - the data fetching and their display are quite easy to put in practice assume the database was built correct	Medium Low	Sara						
Indice. I . Access example and the control	- Create a "Requested Reservations" component for CSR interface	a - are case recurring and their cusping are quite easy to put it practice assures the database was built conte	median com	Jana	-					
	<ul> <li>Populate the reservation log interface with the data fatched from the backend</li> <li>Implement a 'Details' button to allow CSR to view detailed information about each pending reservation.</li> </ul>									
	Provide buttons for CSR to approve or reject each panding reservation     Institute reservation status acrondinate									
7107 10 000	- When a reservation is approved, move it to "Upcoming reservations" list									
TASK-4.2: CSM access to pending customer rese	- Create "Uccoming Reservations" component	5 - same as issue #34 above	High Medium	Sara	2					
	- Design a table that displays confirmed reservations - Include aditable fields for location, dates and status									
200 40 0	Introduce violation window for poculator, causars and classified     Implement "Save" button for CSR to save changes and "Cancel" button to discard changes.  - card - implement client-uide validation for the editable fields to ensure that the data entered by the CSR is valid before saving.		Mortium Mortium							
IADA-4.3: bet up an interactive table for modifying	cur - Implement client-side validation for the editable fields to ensure that the data entered by the CSR is valid before saving  - Code the permission for a CSR to delete an existing reservation	51	wedium Medium	Boudour	2					
	tabl - Code the permission for a CSR to edit an existing reservation	3 - database is already set and it is a question of playing in the parameters of each user's access. Difficulty		Hossam	2					
ASK-4.5: Code the backend for confirming the p ASK-5.1: Configure Payment Portal		3 - same justification as issue #37 8 - payment portals will require many interactions with the database, storage and protection of sensitive infollo	High Medium	Jad Enrique	2					
on-o. I : Consigure Payment Portal	. Create "McCarl" commonant	<ul> <li>payment porses we require many manactions with the database, storage and protection of sensitive into</li> </ul>	regn Low	cnrique	2					
	Design a checkout process that allows users to add the confirmed reservation to their cart     Provide "Proceed to Payment" button for customer and display the payment process									
	- Promot customer for Card number, card holder, exp date and cyv									
ASK-5.2: Handle payment confirmation and uro		8 - same justification as in issue # 41 above. Plus additional difficulty in the logic handeling of unsuccessful to	Low High	Boudour	2					
	Create "Review" component     Design a form for users to leave a rating for each car they reserved. Include fields for rating (e.g., 1-5 stars) and comments									
	- Update the reservation status to "Reviewed"									
TASK-6.1: Implement Review Prompt	Show the ratings and comments left by the user in their reservation history     Create a "Reviews" section on the product page	3 - multiple review components can be found to be added in our website, however potential difficulty in data	Medium Low	Irina	2					
ASK-6.2: Implement Review Visibility on Produc	- Display the average rating and the number of reviews for each product	3 - same justification as the issue # 43 above	Medium Low	Sara						
	Code a simple markerism that multiplice the number of rations with the average ration of a vehicle, and the new ration to it and divide it by the number of rations + 1.		wedsum Low	owfile	2					
	strig Handle http requests regarding the strings	2 - this task is a simple arithmetical equation that has been done previous tutorials and assignments	Mertium Low	Enrique	2					