

SPRINT #2		Difficulty level legend:							
Item #	User Story Title/Test Title	Acceptance/Functional Tests	Difficulty level (1,2,3,4,5,6)	Priority	Risk	Action	Impact		
#16	TASK-1.1: Set up the database for Vehicles	-create a database for vehicles -populate the database with vehicles	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Low	Assign	2		
#17	TASK-1.2: Design and build of website page home	- Gather inspiration from multiple Car Rental websites - Design a mock-up for the Website and all pages of the Website - Review mockup with the team and make final	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Low	Assign	2		
#18	TASK-1.3: Implement search bar on Home page	- Create a component for a search bar and add it to the home page that includes the database, from and unit date of the reservation and search form. Once the search button is clicked, the user will be redirected to the Catalog page where all matching search results are displayed.	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Low	Assign	2		
#19	TASK-1.4: Implement search bar on Home page	- Handle the incoming HTTP requests - Code the search mechanism in backend - Successfully retrieve the information in the database and return the sorted information.	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Medium	Assign	2		
#20	TASK-1.5: Implement Filter Functionality on Catalog	- Create a Filter Component - Implement user interactions for selecting and clearing filters - When a filter is applied, the search results are updated accordingly on the UI - When the filter option is cleared, displayed search results are reset to original state without any filters	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#21	TASK-1.6: Implement Filter Functionality on Catalog	- Check the filtering options with frontend - Code the logic for the database filtering system.	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#22	TASK-1.7: Configure Carousels for browsing options	- Create a "Carousel" component - Integrate with API Backend to display vehicle matching the Carousel category - Create a new component for the Pop-up window - Implement Role-based authentication - If user is a CSR or System Admin, only allow log-in with their existing credentials - If user is a Customer, prompt existing user for "username" and "password", include "Forgot Password" option - Handle log-in form: prompt existing user for "username" and "password", include "Forgot Password" option - Handle log-in form: prompt new customer for "Full name", "email address", "username", "password", "confirm password"	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Low	Assign	2		
#24	TASK-2.1: Implement Pop-up for login sign-up	- Validate user inputs and display error messages gracefully	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#25	TASK-2.2: Set up the database for users	- Create a database for users only - Each user must have a variable for: name, birthdate, profile picture, rental history	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#26	TASK-2.3: Set up admin user account	- Write backend code to create an admin account with the specified fields: "username", "password", "first name" and "last name" in the Users' database - Design and implement backend API endpoints for CRUDL operations on users, vehicles, and reservations - Implement authorization logic to check the user's role and permissions when accessing different API endpoints - Determine specific permissions access rights associated with each user: Customer, CSR, SystemAdmin - Create separate interfaces and navigation flows for each user role, tailored to their specific needs and permissions - Customers can access "My Reservations", "My Car", and "History", modify and cancel upcoming reservations - CSRs can access and modify "Pending Reservations", access, modify and cancel upcoming reservations - System Admins allowed to access all users, vehicles and reservation details, add a new record, edit, and delete - Implement form validation for input fields to ensure that the data entered by the admin is valid before submitting it to the backend	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#27	TASK-2.4: Create user-specific views based on roles	- Implement functionality to detect if the user is logged in when they click "book now" - If logged in, proceed to the reservation form. If not logged in, display the login pop-up - After successful login, redirect the user to the reservation form where they can complete the booking process - Design and implement a "reservation form" for user account management. When the user clicks on the person icon in the top bar, open the login pop-up - Ensure that the user's session is maintained across pages after login to avoid frequent logins	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Low	Assign	2		
#28	TASK-2.5: Implement middleware for backend logic handling	- Create a component with a summary of vehicle details, external location, date, checkboxes for adding extra equipment, and text areas for special notes - Implement client-side form validation to ensure that required fields are filled out correctly before submitting the reservation - Implement functionality to add the reservation form data to the backend API endpoint for processing - Create the database for reservations with corresponding attributes: vehicle id, customer id, starting date, time, rating, reservation id	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#29	TASK-2.6: Implement middleware for user permissions on reservations	- Design Reservation Data Component whose the status is a visually clear format, such as a badge or a labeled text - Display the reservation status as "Pending" immediately after the user submits a reservation request - Update the reservation status to "Confirmed" when the CSR approves the request. This should trigger a notification to the user's email address	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Low	Assign	2		
#30	TASK-2.7: Design and Code the reservation status on user	- Create a "MyReservations" component - Implement logic to fetch existing reservation data from the backend API - Populate the reservation display component with the date, ID, date, location, and status - Handle Empty state: Display a message when user has no reservations - Create a "Requested Reservations" component for CSR interface - Populate the reservation log interface with the data fetched from the backend - Implement a "Details" button to allow CSR to view detailed information about each pending reservation - Provide buttons for CSR to approve or reject each pending reservation - Update reservation status accordingly - When a reservation is approved, move it to "Upcoming Reservations" list	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Low	Low	Assign	2		
#31	TASK-2.8: CSR access to pending customer reservations	- Design Reservation Data Component whose the status is a visually clear format, such as a badge or a labeled text - Display the reservation status as "Pending" immediately after the user submits a reservation request - Update the reservation status to "Confirmed" when the CSR approves the request. This should trigger a notification to the user's email address	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	High	Medium	Assign	2		
#32	TASK-2.9: Set up an interactive table for modifying car	- Create a "Requested Reservations" component - Design a table that displays confirmed reservations - Include editable fields for location, date and status - Implement "Save" button for CSR to save changes and "Cancel" button to discard changes - Implement client-side validation for the editable fields to ensure that the data entered by the CSR is valid before saving	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#33	TASK-2.10: Implement the middleware for the CSR table	- Code the permission for a CSR to delete an existing reservation - Code the permission for a CSR to edit an existing reservation	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Medium	Assign	2		
#34	TASK-2.11: Configure Payment Portal	- Create a "Payment" component - Design a checkout process that allows users to add the confirmed reservation to their cart - Implement "Proceed to Payment" button to initiate the payment process - Prompt customer for Card number, card holder, exp date and cvv - If the payment is successful, update the reservation status to "Paid" and send an email confirmation - If the payment is unsuccessful, provide an error message to the user and allow them to try again or choose a different payment method	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	High	Medium	Assign	2		
#42	TASK-5.2: Handle payment confirmation and success	- 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" - Show the ratings and comments left by the user in their reservation history	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Low	Assign	2		
#43	TASK-6.1: Implement Review Prompt	- Create a "Review" section on the product page - Display the average rating and the number of reviews for each product - Display individual reviews for each product. Show the ratings, comments	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Low	Assign	2		
#44	TASK-6.2: Implement Review Visibility on Product	- Create a simple mechanism that multiplies the number of reviews with the average rating of a vehicle, add the new rating to 1 and divide by the number of old ratings + 1 - Handle HTTP requests regarding the ratings	1: Very low difficulty 2: Low difficulty 3: Medium difficulty 4: Medium difficulty with a risk of unplanned difficulty 5: High difficulty	Medium	Low	Assign	2		