

# Avtek: Car Rental Application

## 1 Introduction

The car rental application, designed for seamless vehicle rentals, caters to users of all experience levels. Its primary goal is to simplify the car rental process, ensuring both usability and efficiency. The application is centered and designed to be easily resizable, featuring a standard resolution of 800 by 500 pixels. The payment view has a smaller size of 400 by 300 pixels.

It follows the user through all of the steps the car rental process in a minimalistic way and positive feedbacks when it is complete.

## 2 Nielsen's Principles

### 2.1 Visibility of System Status

The application maintains a clear and constant display of the user's progress throughout the car rental process. Status updates, such as pickup date selection and chosen car model, are prominently visible.

### 2.2 User Control and Freedom

Users have the freedom to navigate the application easily. Clear back buttons and confirmation prompts provide control over their choices.

### 2.3 Match Between System and the Real World

To align with users' expectations, the application mirrors real-world car rental processes. Intuitive navigation and familiar terminology create a user-friendly experience.

### 2.4 Consistency and Standards

Consistent design elements and adherence to industry standards ensure a cohesive and familiar experience for users.

### 2.5 Error Prevention

The application strongly emphasizes error prevention throughout the reservation process.

On each scene, users are required to make valid selections, ensuring choices are within the available options. Thorough verification of user details, such as age checks, prevents errors and ensures compliance with legal requirements.

During the payment process, the application validates credit card numbers' length, preventing potential errors in payment information.

### 2.6 Recognition Rather Than Recall

Information is presented contextually, reducing the need for users to remember specific details. Clear labels and visual cues aid in recognition, enhancing the overall user experience.

### 2.7 Flexibility and Efficiency of Use

Both novice and expert users can efficiently navigate the application. Quick access to advanced features caters to experienced users, while straightforward workflows benefit beginners.

### 2.8 Aesthetic and Minimalist Design

The application features a visually appealing design with a minimalist approach. Unnecessary clutter is removed, enhancing the overall user experience.

### 2.9 Help Users Recognize, Diagnose, and Recover from Errors

The application provides informative error messages, guiding users to identify and rectify issues promptly.

### 2.10 Help and Documentation

Built-in help features are available within the application, providing users with on-demand assistance.

## 3 Analysis and Design Choices

The selection of a clean and modern interface, coupled with intuitive navigation, aims to create an engaging and user-centric experience. The choice of colors and images, including the Avtek logo, which was generated with the help of Artificial Intelligence, contributes to evoking a sense of trust and reliability.

## 4 User Feedback and Testing

Through user testing, I personally evaluated the application, receiving positive feedback on its user-friendly design and clarity. Subsequent to this testing phase, iterative enhancements were implemented, refining the user interface for an improved overall experience.

## **5 Conclusion**

In conclusion, the car rental application effectively incorporates Nielsen's principles to deliver a user-friendly and efficient experience. The careful consideration of design choices, coupled with ongoing user feedback, ensures the application meets the needs of a diverse user base. The inclusion of user interfaces, such as the landing page, time selection, category selection, car choice, and details/payment views, showcases a cohesive and well-designed application.