

Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name: Bus ticket booking management system

Experiment no: 4

Experiment name: Application of Design Principle of our Project

Submitted To

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The design principles lay the foundation for the design principles lay the foundation for creating user centered, functional and visually appealing software applications. This report delves into the extensive application of design principles within the context of an online bus ticket management system.

2. The significance of Design Principles:

Design principles act as guiding beacons,

directing the creation of interesaces that not
only look good but also delivere optimal users

experciences

3. Application of Design Preinciples

3.1 consistency and unity

In the online bus ticket management system, consistency remains paramount. By using a unified design language, including a consistent colore palette, typography and UI components across the application,

users are able to infuitively navigate and intercact with different sections. This enhances familiarrity and reduces the learning curve.

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Project: Online Bus Ticket Management

3.2 Simplicity and Minimalism:

The principle of simplicity guides the presentation of information. A clean and minimalist design approach ensures that works are presented. with only the prose essential details required for their interactions. By reducing virtual elutter, the rypotem prevents cognitive orestood

3.3 User-centered Disign:

Understanding the target gudience is pivotal. By Loweloping detailed user persons and user ocenarios, the system can be failored to cater to the specific needs, preterones, and behaviours of users. This ensures that the interstace resonates well with the intended were base, enhancing week sextistaction beingagenet

13.4 visibility & Feedback: clear and immediate beedback is exucial to user interactions. By incorporating visit ocues that respond to woos actions, ruch as button depressions and loading animations, the pyrotem provides works with contidence that their inputs how Been ocknowledged. This beedback nechanish Hosters a serve of control and engagement. B.5 Fitts's Law and Ease of Use: Leveraging fitts Low, commonly rocen in

Leveraging fitts Low, commonly rocen in
the rize and placement of interactive
elements, ensure that its equantly used
comments and larger and more acceptable.
This desderign principle acknowledges the
phy ried limitations of human movement.

Implementing a well defined visual hiertranchy ensures that users can swiftly mavigate the interesace. Through strategie use of sizing enforcember contrast and placement important elements draw attention while maintaining an organized flow of inforzmation.

3.7. contrast and Readability.

Employing sufficient colore contrast between ext and backs round enhances readability. This practise ensures that information is accessible to users with varying visual abilities. A harmonious contrast tentio entrebutes a comfortable treating experience.

3.8 Feedback and Ercrore Prevention.

Swift feedback mechanisms are embedded to keep users informed about the outenage of their interactions. During the booking process, validation steps help prevent errors by guiding users to previde accurate and complete information

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4) Components of the Application:

9.1) Home page

The home page serves as the entry point, offering an organized display of available routes and buses. By employing a visually clear search bare and prominent nevigation elements user canbe encourged to seamlessly initiate their journey through the system.

4.2) Bus detail page

The bus detail page is designed to provide comprehensive information about each bus type, including features, seating arcrangements and amenities. Users can conveniently explore available seats and theirs preferences, creating an expension and informative experience.

9.3) Booking Process

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A streamlined and user-freiendly booking process guides users through the steps of selecting seats, entering passenger details and confirming booking.

Each step is designed to be intuitive, ensuring that users can comforctably complete the
transaction.

44) Ticket Confirmation and User Dashboard

Upon successful booking, a detailed ticket

confirmation page provides users with all

relevant information. Additionally, a user

Dashboard allows users to access their

booking history

manage their profiles

- seek assistance

- Reforccing a sense of ownereship and controls

Conclusion

The application of design preinciples within the online bus ticket management system showcase the fusion of aesthetics, usability and functionality. Through adherence of preinciples such as consistency, simplicity and userr-centerred design and effective feedback mechanism, the system offers a user expercience that is both satisfying and efficient. The considerced application of these principle serves as a testament to the commitment towards creating a system that is not only visually appealing but also genuinely userr-centric. As a result, the online bus ticket management system stands poised to delivere seamless interactions and catere to the diverse needs of its users.