KSRTC MANAGEMENT SYSTEM
(FEASIBILITY STUDY)

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Requirement Gathering

The process of identifying, documenting, and prioritizing the needs and expectations of stakeholders, such as bus conductor and driver, KSRTC depot(terminal), workshop,public and administrators.

1. **Identify Key Stakeholders**

- **Bus conductor and driver:** These are the end-users of the system who will use it to manage their bus information, to see the allocated buses, and routes.

- **Sub depot**: They will use the system to allocate conductors and drivers in different buses, manage workshop, set route of the buses and track buses and give daily report to admin.

- **workshop:** workshop can view the breakdown details of the bus and give the responses and track the buses and also update their repair details

- **public:** public can view the bus details and track the buses

- **Administrators**:admin are the KSRTC district office can manage the KSRTC terminals,view the bus details,view the complaint of the buses and post their replay

2. **Conduct Stakeholder Interviews:**

- Arrange interviews with representatives from each stakeholder group to understand their specific needs and pain points.

3. **Create User Personas:**

- Develop user personas that represent typical users within each stakeholder group. These personas will help in understanding user needs better.

4. Functional Requirements:

- Define the functional requirements of the system. These are specific features and functionalities that the system must have. Examples include:
- User can track the buses.
- Bus conductors,drivers can view the allocated buses and timings.
- Set route and update route
- Collect the daily record the buses.
- Give salary to bus driver and conductor.
- Reporting and analytics.

5. Non-Functional Requirements:

- Identify non-functional requirements that address aspects like system performance, security, scalability, and usability. For example:
- Response time for user interactions.
- Data encryption and privacy measures.
- Support for a certain number of simultaneous users.
- Compatibility with various devices and browsers.

6.Data Requirements:

- Determine what data needs to be captured, stored, and processed. Include data types, formats, and any data validation rules.

7.User Interface and Design Requirements:

- Specify the user interface (UI) and user experience (UX) requirements. These include design elements, layouts, and navigation.

Feasibility Study Report:

Online KSRTC Management System

Introduction

The ksrtc managment industry is a significant market segment that encompasses a wide range of services, including manage the KSRTC terminal,mange the bus conductor and driver and manage the workshop and users. This industry has witnessed substantial growth.

Objectives

1. Evaluate the technical feasibility of developing an online KSRTC management system.
2. Assess the operational feasibility of implementing the system within the existing KSRTC industry.
3. Analyze the economic feasibility, including cost estimates and potential revenue streams.
4. Determine the scheduling feasibility and project timeline.

1. Technical Feasibility

- Hardware and Software Requirements: Identifying the necessary hardware and software components for system development.
- Technical Expertise: Evaluating the availability of skilled developers and technical resources.
- Security and Privacy:Ensuring compliance with data security and privacy regulations.
- Integration Capabilities: Assessing the system's ability to integrate with existing KSRTC platforms and technologies.

2. Operational Feasibility

- User Acceptance: Gathering feedback from potential users (KSRTC terminal,bus conductor and driver,workshop,public) to ensure they embrace the system.

- Business Processes: Analyzing how the system will affect existing KSRTC workflows and identifying potential improvements.

- Change Management:Developing strategies for smooth adoption and addressing resistance to change.

3. Economic Feasibility

- Cost Estimation: Estimating the development, implementation, and maintenance costs of the system.

- Revenue Projections: Identifying potential revenue streams, such as subscription fees, advertising, or partnerships.

- Return on Investment (ROI): Calculating the expected ROI and payback period.

4. Scheduling Feasibility

Scheduling feasibility involves planning the project timeline:

- Project Phases: Dividing the project into manageable phases with specific milestones.

- Resource Allocation: Allocating human and financial resources to each phase.

- Risk Assessment: Identifying potential project risks and mitigation strategies.

5. Behavioral Feasibility

The presented system encompasses the subsequent inquiries:

• Is there sufficient support for the users

➢ YES

• Will the proposed system cause harm?

➢ No

Feasibility Study Questionnaire

1.Are you familier with the concept of KSRTC management system?

yes

2. Does the system provide a robust mechanism for safeguarding user information, thereby ensuring optimal security?

The system guarantees a high level of security in the storage of user information.

3.is the required technology available and accessible for the implementation of the system?

Yes,the required technology,including hardware and software,is readily available and accessible for the implementation of the KSRTC management system

4. what specific goal and objectives do you believe this management system shuld achieve for KSRTC?

The system will improve route scheduling and fleet management .reduce operational costs,and enhance passenger services.

5. How do you envision this system improving KSRTC operation and services?

Provide real time data for better decision making ,automate manual processes,and improve resource allocation.

6.wha are the re quirments and functionalities you expect from the inner management system?

We need features for route optimization ,vechicle tracking ,maintance scheduling,and reporting tools

7.What are the understanding of the goals and objectives of this project?

The project aims to modernize KSRTC internal operations and improve efficiency.