

SHAHJALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPT. OF SOFTWARE ENGINEERING, IICT



SWE 426: SOFTWARE PROJECT MANAGEMENT LAB

---

## Project Report: SUST Autorickshaw Management System

---

**Instructor:**

**Dr. Ahsan Habib**

Associate Professor, IICT, SUST

**Submitted by:**

Sumonta Saha Mridul (Reg No: 2019831056)

# PROJECT OVERVIEW

FRI 7/14/23 - TUE 10/31/23

% COMPLETE

82%

## MILESTONES DUE

Milestones that are coming soon.

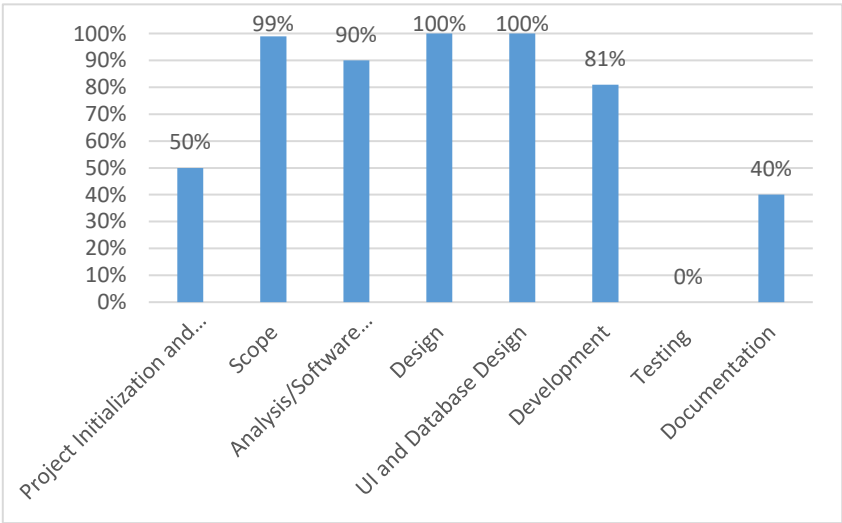
Name	Finish
Make and Show Payment	Tue 9/19/23

## LATE TASKS

Tasks that are past due.

## % COMPLETE

Status for all top-level tasks. To see the status for subtasks, click on the chart and update the outline level in the Field List.



Name	Start	Finish	Duration	% Complete
Project Proposal Approval	Fri 7/14/23	Fri 7/21/23	6 days	50%
Obtain approvals to proceed (concept, timeline, requirements)	Sun 7/30/23	Tue 8/1/23	16 hrs	25%
Show Available Schedule	Tue 10/10/23	Thu 10/12/23	3 days	7%
Make and Show Payment	Tue 9/19/23	Tue 9/19/23	0 days	0%
Payment History	Tue 10/17/23	Mon 10/23/23	5 days	40%
Testing and Bug Fixing	Thu 10/19/23	Fri 10/20/23	2 days	0%
Review all user documentation	Wed 10/25/23	Tue 10/31/23	5 days	40%

## Project Phases and Tasks: *SUST Autorickshaw Management System*

### 1. Project Initiation:
























- **Define Project Scope (1 hour):** Established the objectives, deliverables, and boundaries of the autorickshaw management system project. The scope was defined to ensure the system would address the needs of scheduling, registration, and payment processing.
- **Identify Stakeholders (1 day):** Identified all individuals and organizations affected by the project, including university administration, autorickshaw owners, drivers, and managers.
- **Project Proposal Approval (6 days):** Officially started the project with the submission and approval of the proposal by stakeholders.

### 2. Planning:




















- **Requirement Gathering (5 days):** Gathered requirements for the autorickshaw management system, focusing on registration, scheduling, and payment functionalities. This information formed the basis for the system's features.
- **Feasibility Study (Not explicitly mentioned but implied in the requirement gathering and analysis phase):** Analyzed the technical, operational, and financial feasibility of the project.
- **Project Plan Development (Scope Phase):** The project plan outlined the schedule, resource allocation, risk mitigation strategies, and communication plan. This provided a clear roadmap for project execution.



### 3. Design:

- **System Architecture Design (5 days):** The high-level structure of the system was designed to ensure scalability and integration of various components like registration, scheduling, and payment modules.
- **Database Design (4 days):** The database design focused on creating a robust schema to handle autorickshaw schedules, owner and driver information, and payment data.

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Fe
0			<b>SUST Autorickshaw Management System</b>	<b>78 days</b>	<b>Fri 7/14/23</b>	<b>Tue 10/31/2</b>			
1			<b>Project Initialization and Planning</b>	<b>6 days</b>	<b>Fri 7/14/23</b>	<b>Fri 7/21/23</b>		<b>Full Team</b>	
2			Project Proposal Approval	6 days	Fri 7/14/23	Fri 7/21/23			
3			<b>Scope</b>	<b>5 days</b>	<b>Sat 7/22/23</b>	<b>Thu 7/27/23</b>	<b>2</b>	<b>Full Team</b>	
4	✓		Determine project scope	1 hr	Sat 7/22/23	Mon 7/24/23			
5	✓		Discuss scope with client	1 day	Sat 7/22/23	Mon 7/24/23			
6	✓		Define preliminary resources	1 day	Tue 7/25/23	Tue 7/25/23			
7	✓		Secure core resources	1 day	Wed 7/26/23	Wed 7/26/23			
8	✓		Scope complete	1 day	Thu 7/27/23	Thu 7/27/23			
9			<b>Analysis/Software Requirements</b>	<b>4 days</b>	<b>Sat 7/29/23</b>	<b>Wed 8/2/23</b>	<b>8</b>		
10	✓		Conduct needs analysis	3 days	Sat 7/29/23	Wed 8/2/23		Promi,Sumonta	
11	✓		Draft preliminary requirements	3 days	Sat 7/29/23	Wed 8/2/23		Sabbir	
12	✓		Develop preliminary software specification	2 days	Sat 7/29/23	Tue 8/1/23		Sumonta	
13	✓		Review software specifications with team	13 hrs	Sat 7/29/23	Tue 8/1/23		Full Team	
14	✓		Incorporate feedback on software specification	1 day	Sat 7/29/23	Mon 7/31/23		Sumonta	
15	✓		Develop delivery timeline	1 day	Sun 7/30/23	Mon 7/31/23		Promi	
16	 		Obtain approvals to proceed (concept, timeline, requirements)	16 hrs	Sun 7/30/23	Tue 8/1/23		Sumonta,Sabbir	
17	✓		Learn required resources	1 day	Wed 8/2/23	Wed 8/2/23		Sumonta,Promi	
18	✓		<b>Design</b>	<b>5 days</b>	<b>Thu 8/3/23</b>	<b>Wed 8/9/23</b>			
19	✓		Review preliminary software specifications	2 days	Thu 8/3/23	Fri 8/4/23		Sabbir	

Project: SUST Autorickshaw Ma  
Date: Wed 5/29/24

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Fe
20	✓	→	Develop functional specifications	5 days	Thu 8/3/23	Wed 8/9/23		Sumonta	
21	✓	→	Develop prototype based on functional specifications	2 days	Thu 8/3/23	Fri 8/4/23		Sumonta,Promi	
22	✓	→	Review functional specifications	1 day	Thu 8/3/23	Thu 8/3/23		Sumonta,Sabbir	
23	✓	→	Incorporate feedback into functional specifications	1 day	Thu 8/3/23	Thu 8/3/23		Sumonta	
24	✓	→	Obtain approval to proceed	8 hrs	Thu 8/3/23	Thu 8/3/23		Promi	
25	✓	→	Design complete	0 days	Thu 8/3/23	Thu 8/3/23		Sumonta	
26	✓	→	<b>UI and Database Design</b>	<b>11 days</b>	<b>Thu 8/10/23</b>	<b>Thu 8/24/23</b>		<b>Sumonta,Promi</b>	
27	✓	→	Home Screen Design	3 days	Thu 8/10/23	Mon 8/14/23			
28	✓	→	Database Design and Setup	4 days	Tue 8/15/23	Sun 8/20/23			
29	✓	→	User Interface Design	3 days	Tue 8/22/23	Thu 8/24/23			
30		→	<b>Development</b>	<b>42 days</b>	<b>Fri 8/25/23</b>	<b>Mon 10/23/23</b>		<b>Sumonta</b>	
31	✓	→	<b>Admin Section</b>	<b>7 days</b>	<b>Fri 8/25/23</b>	<b>Mon 9/4/23</b>	28,29	<b>Sumonta</b>	
32	✓	→	Admin Login Page	2 days	Fri 8/25/23	Mon 8/28/23			
33	✓	→	Dashboard Page	3 days	Wed 8/30/23	Fri 9/1/23			
34	✓	→	Admin Access Page	1 day	Sat 9/2/23	Mon 9/4/23			
35	✓	→	Admin Profile Page	1 day	Sun 9/3/23	Mon 9/4/23			
36	✓	→	<b>Registration</b>	<b>6 days</b>	<b>Tue 9/5/23</b>	<b>Tue 9/12/23</b>	28,29	<b>Sabbir</b>	
37	✓	→	Owner Registration	2 days	Tue 9/5/23	Wed 9/6/23			
38	✓	→	Autorickshaw Registration	1 day	Thu 9/7/23	Thu 9/7/23			
39	✓	→	Driver Registration	2 days	Fri 9/8/23	Mon 9/11/23			

Project: SUST Autorickshaw Ma

Date: Wed 5/29/24

Task

Split


Milestone


Summary


Project Summary


Inactive Task


Inactive Milestone

















Inactive Summary

Manual Task


Duration-only


Manual Summary Rollup


Manual Summary


Start-only


Finish-only


















External Tasks


External Milestone


Deadline

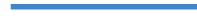
Progress


Manual Progress































ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Fe
40			Manager Registration	1 day	Tue 9/12/23	Tue 9/12/23			
41			Permission	3 days	Fri 9/15/23	Tue 9/19/23	31	Promi	
42			Authorization Page	1 day	Fri 9/15/23	Fri 9/15/23			
43			Printed Copy of Authorization	2 days	Sat 9/16/23	Tue 9/19/23			
44			Dashboard	5 days	Mon 10/2/23	Fri 10/6/23		Sumonta	
45			Permitted/Unpermitted Owner List Page	1 day	Mon 10/2/23	Mon 10/2/23			
46			Permitted/Unpermitted Driver List Page	1 day	Tue 10/3/23	Tue 10/3/23			
47			Permitted/Unpermitted Manager List Page	1 day	Wed 10/4/23	Wed 10/4/23			
48			Permitted/Unpermitted Autorickshaw List Page	1 day	Fri 10/6/23	Fri 10/6/23			
49			Schedule	4 days	Sun 10/8/23	Thu 10/12/23	36,41	Promi	
50			Create Shedule	2 days	Sun 10/8/23	Tue 10/10/23			
51			Show Available Schedule	3 days	Tue 10/10/23	Thu 10/12/23			
52			Payment	24 days	Tue 9/19/23	Mon 10/23/23	36,41	Promi	
53			Make and Show Payment	0 days	Tue 9/19/23	Tue 9/19/23			
54			Payment History	5 days	Tue 10/17/23	Mon 10/23/23			
55			Testing	7 days	Thu 10/19/23	Fri 10/27/23	36,44	Full Team	
56			Testing and Bug Fixing	2 days	Thu 10/19/23	Fri 10/20/23			
57			Documentation	5 days	Wed 10/25/23	Tue 10/31/23	56	Full Team	
58			Review all user documentation	5 days	Wed 10/25/23	Tue 10/31/23			

Project: SUST Autorickshaw Ma Date: Wed 5/29/24	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Progress	
	Project Summary		Manual Summary		Manual Progress	
	Inactive Task		Start-only			
	Inactive Milestone		Finish-only			



- **UI/UX Design (11 days):** The UI/UX design ensured that the system was user-friendly, with intuitive navigation and accessible features for all users, including administrators and autorickshaw operators.

#### 4. Implementation:

- **Admin Section Development (7 days):** Developed the admin login, dashboard, access control, and profile pages.
  - **Admin Login Page (2 days):** Developed the admin login interface.
  - **Dashboard Page (3 days):** Created the admin dashboard interface.
  - **Admin Access and Profile Pages (1 day each):** Developed the access control and profile management pages.
- **Registration Module Development (6 days):** Developed the registration functionalities for owners, autorickshaws, drivers, and managers.
  - **Owner Registration (2 days):** Implemented the owner registration functionality.
  - **Autorickshaw Registration (1 day):** Developed the autorickshaw registration process.
  - **Driver Registration (2 days):** Created the driver registration module.
  - **Manager Registration (1 day):** Developed the manager registration functionality.
- **Permission Module Development (3 days):** Created the authorization page and functionality for printing authorization copies.
- **Dashboard and Scheduling (9 days):** Developed the dashboard for listing permitted/unpermitted entities and scheduling features.
  - **Permitted/Unpermitted Lists (4 days):** Developed pages to list permitted and unpermitted owners, drivers, managers, and autorickshaws.
  - **Schedule Creation and Display (4 days):** Implemented scheduling functionality and features to display available schedules.
- **Payment Module Development (24 days):** Implemented payment processing functionalities and tracking.



- **Payment Processing (Initial implementation on Sep 19):** Developed the payment processing features.
- **Payment History (5 days):** Developed functionality to track and display payment history.

#### 5. Testing:

- **Unit Testing (2 days):** Tested individual modules to ensure they worked as expected.
- **Integration Testing (Part of development phase):** Ensured that the frontend and backend components worked together seamlessly.
- **System Testing (7 days):** Validated the overall functionality of the system, including edge cases and overall performance.
- **Acceptance Testing (Part of system testing):** Ensured the system met stakeholder needs and expectations, providing feedback for final adjustments.

#### 6. Documentation:

- **Review All User Documentation (5 days, Wed 10/25/23 - Tue 10/31/23):** The full team reviewed and finalized all user documentation, ensuring it was comprehensive and easy to understand. This included creating user manuals, help guides, and any other necessary documentation to support users in operating the autorickshaw management system.

## Actual Work vs Remaining Work

