Project Name: Bughound – Software Project Scheduling Report

Course: CECS 543

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Software Used: Zoho Projects

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1. Introduction

Bughound is a web-based bug tracking system designed to record, update, search, and manage bug reports across software projects. It also manages related data including Programs, Employees, and Functional Areas. The application enables users to create new bugs, update existing bugs, search bug records, and maintain database tables.

This report provides a complete project schedule for the Bughound software using **Zoho Projects**, including a task set, parallel work breakdown, milestones, task network, critical path, and a final timeline.

Development is divided into **three major iterations**:

Iteration 1 – Application Foundation

- Setting up structure
- Designing GUI
- Dashboard + navigation

Iteration 2 – Master Data Management

- Programs, Areas, Employees forms
- Add & update records
- Data validation

Iteration 3 – Bug Tracking Module

- Add bug
- Update bug
- Search bug
- Bug status, resolution, priority

2. Task Set for Bughound

Iteration 1 – Application Foundation

Task ID	Task Name	Description
1.1	Project Setup	Environment, repo, folder structure
1.2	GUI & Dashboard Design	Build dashboard UI & layout
1.3	Navigation Implementation	Link dashboard to data and bug forms

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Iteration 2 – Master Data Management

Task ID	Task Name	Description
2.1	Program Form Development	Add/update program data
2.2	Area Form Development	Add/update functional areas
2.3	Employee Form Development	Create employee table form
2.4	Add Record Functionality	Implement validation & submission

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Iteration 3 – Bug Tracking Module

Task ID	Task Name	Description
3.1	Bug Form & Page Creation	New bug report entry page
3.2	Bug Add/Update/Search	Full bug lifecycle functionality

Final Phase

Task ID	Task Name	Description
4.1	Integration Testing	Ensure all modules function correctly
4.2	Final Bug Fixes & Adjustments	Stability and polishing

3. Parallel Work Activities

Several activities can occur simultaneously to reduce completion time:

Iteration 1 Overlap

- GUI Design (1.2) can overlap with Navigation Implementation (1.3)

Iteration 1 → Iteration 2

- Program Form Development (2.1) can begin as soon as navigation (1.3) is stable.

Iteration 2 Overlap

- Area Form (2.2) and Employee Form (2.3) can run in parallel.
- Add Record Functionality (2.4) starts after 2.2 + 2.3.

Iteration 3 Overlap

- Bug Form (3.1) is independent once data forms are complete.
- Add/Update/Search (3.2) follows 3.1.

Testing Overlap

- Integration Testing (4.1) triggers only after all functionalities complete.
- Final Fixes (4.2) depend strictly on Testing.

4. Milestones

M1 – Completion of Application Structure (End of Iteration 1)

- Dashboard designed
- Navigation functioning

M2 – Master Data Management Complete (End of Iteration 2)

- Programs, Areas, Employees forms fully working

M3 – Bug Module Complete (End of Iteration 3)

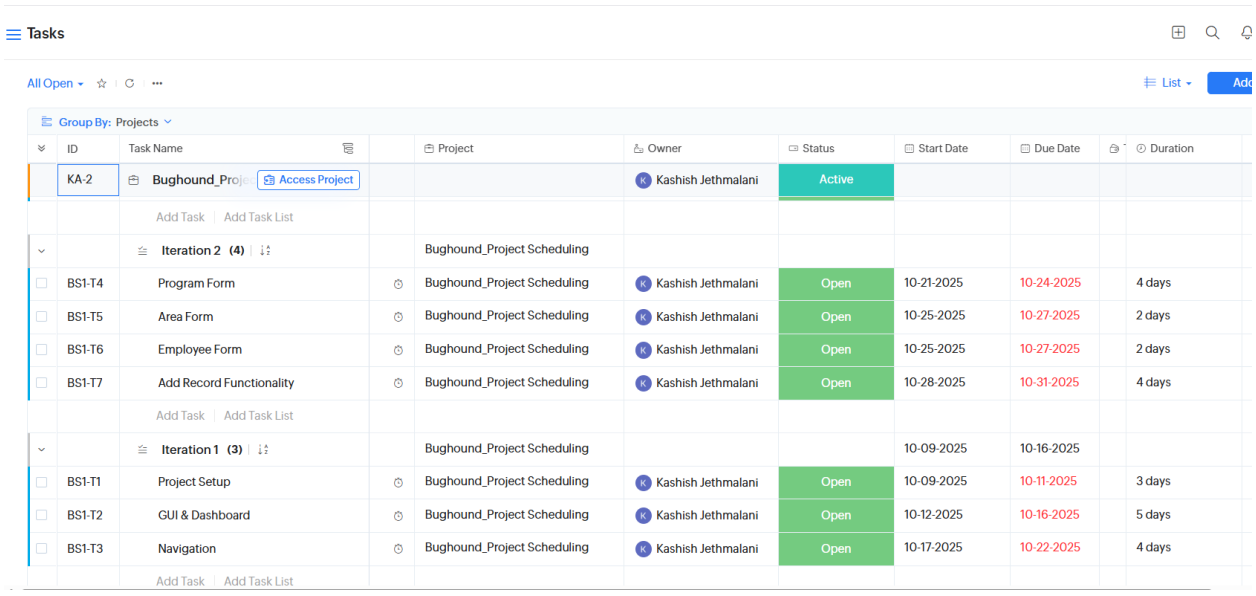
- Bug Add, Update, Search implemented

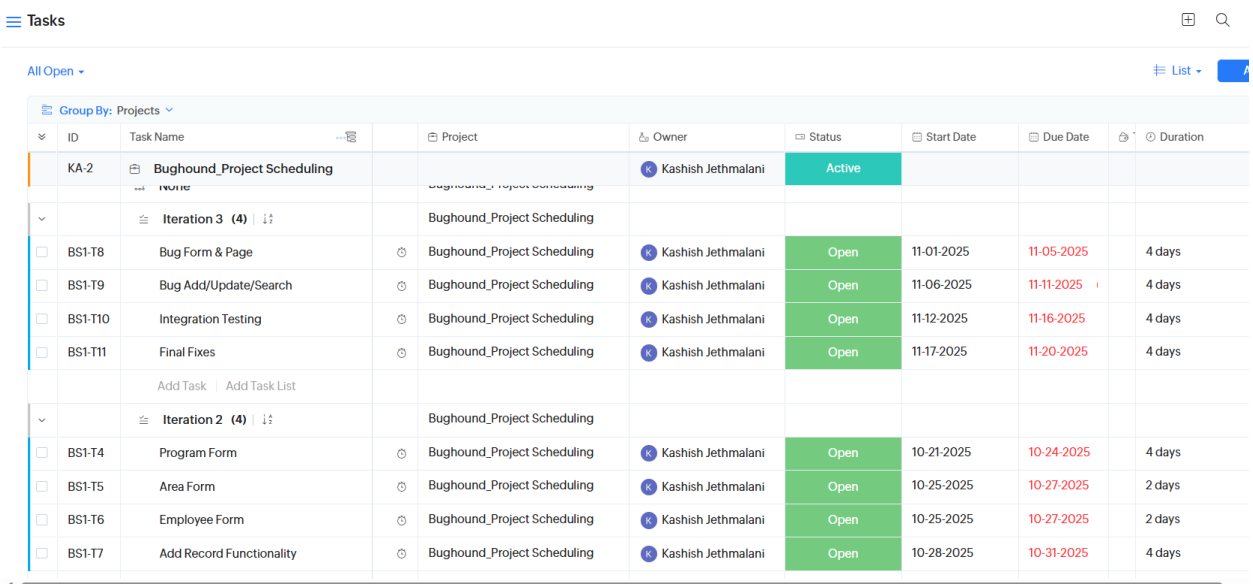
M4 – Final Project Completion

- Testing done
- All fixes completed

5. Task Network (Effort & Duration Estimates)

Task ID	Description	Duration (Days)	Effort (Developers)	Dependencies
1.1	Project Setup	3	2	—
1.2	GUI & Dashboard	5	2	1.1
1.3	Navigation	4	1	1.2
2.1	Program Form	4	1	1.3
2.2	Area Form	3	1	2.1
2.3	Employee Form	3	1	2.1
2.4	Add Record Functionality	4	1	2.2, 2.3
3.1	Bug Form & Page	5	2	2.4
3.2	Bug Add/Update/Search	6	2	3.1
4.1	Integration Testing	5	2	3.2
4.2	Final Fixes	4	1	4.1





ID	Task Name	Project	Owner	Status	Start Date	Due Date	Duration
KA-2	Bughound_Project Scheduling		Kashish Jethmalani	Active			
	Iteration 3 (4)	Bughound_Project Scheduling					
BS1-T8	Bug Form & Page	Bughound_Project Scheduling	Kashish Jethmalani	Open	11-01-2025	11-05-2025	4 days
BS1-T9	Bug Add/Update/Search	Bughound_Project Scheduling	Kashish Jethmalani	Open	11-06-2025	11-11-2025	4 days
BS1-T10	Integration Testing	Bughound_Project Scheduling	Kashish Jethmalani	Open	11-12-2025	11-16-2025	4 days
BS1-T11	Final Fixes	Bughound_Project Scheduling	Kashish Jethmalani	Open	11-17-2025	11-20-2025	4 days
	Add Task | Add Task List						
	Iteration 2 (4)	Bughound_Project Scheduling					
BS1-T4	Program Form	Bughound_Project Scheduling	Kashish Jethmalani	Open	10-21-2025	10-24-2025	4 days
BS1-T5	Area Form	Bughound_Project Scheduling	Kashish Jethmalani	Open	10-25-2025	10-27-2025	2 days
BS1-T6	Employee Form	Bughound_Project Scheduling	Kashish Jethmalani	Open	10-25-2025	10-27-2025	2 days
BS1-T7	Add Record Functionality	Bughound_Project Scheduling	Kashish Jethmalani	Open	10-28-2025	10-31-2025	4 days

6. Critical Path

The critical path determines the earliest completion date. Based on dependencies and durations:

Critical Path:

1.1 → 1.2 → 1.3 → 2.1 → 2.4 → 3.1 → 3.2 → 4.1 → 4.2

Total Duration: 41 days

These tasks must remain on schedule since any delay extends the entire project.

7. Timeline for Bughound Completion (Gantt-Style Breakdown)

Week 1

- Project Setup (3 days)
- GUI Design (Start 2 days)

Week 2

- GUI Design (Remaining 3 days)
- Navigation (4 days)

Week 3

- Program Form Development (4 days)
- Area Form Development (3 days)

Week 4

- Employee Form (3 days)
- Add Record Functionality (4 days)

Week 5

- Bug Form Creation (5 days)

Week 6

- Bug Add/Update/Search (6 days)

Week 7

- Integration Testing (5 days)
- Final Fixes (4 days)

8. Software Used

This project schedule was designed using **Zoho Projects**, including the creation of task dependencies, duration charts, and critical path identification.