

Group 6: Neeli Mistry (Project Manager), Ahmad Shah (Test Planning), Sara Gaber (Performance Testing), Sohan Chatterjee (Unit Testing)

| Project Start Date: 11/11/2024 (Monday) |  |                          |              |              |          |            | Display Week: 1 |   | Week 1<br>11 Nov 2024 |    |    |    |    |    |    |    | Week 2<br>18 Nov 2024 |    |    |    |    |    |    |    | Week 3<br>25 Nov 2024 |    |    |    |   |   |   |   | Week 4<br>2 Dec 2024 |    |    |   |  |  |  |  |
|---|--|--------------------------|--------------|--------------|----------|------------|-----------------|---|-----------------------|----|----|----|----|----|----|----|-----------------------|----|----|----|----|----|----|----|-----------------------|----|----|----|---|---|---|---|----------------------|----|----|---|--|--|--|--|
| Project Manager: Neel Mistry            |  |                          |              |              |          |            |                 |   | 11                    | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19                    | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27                    | 28 | 29 | 30 | 1 | 2 | 3 | 4 | 5                    | 6  | 7  | 8 |  |  |  |  |
| WBS [1]                                 | Task [2]   | Lead [3]                 | Start [4]    | End [5]      | Days [6] | % Done [7] | Work Days [8]   | M | T                     | W  | T  | F  | Sa | Su | M  | T  | W                     | T  | F  | Sa | Su | M  | T  | W  | T                     | F  | Sa | Su | M | T | W | T | F                    | Sa | Su |   |  |  |  |  |
| 1                                       | Project Planning   | Neel Mistry              | Mon 11/11/24 | Fri 11/22/24 | 12       | 100%       | 10              |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 1.1                                     | Define Project Scope   | Neel Mistry              | Mon 11/11/24 | Wed 11/13/24 | 3        | 100%       | 3               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 1.2                                     | Identify Key Milestones                                      | Neel Mistry              | Thu 11/14/24 | Sat 11/16/24 | 3        | 100%       | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 1.3                                     | Resource Allocation  | Neel Mistry              | Sun 11/17/24 | Tue 11/19/24 | 3        | 100%       | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 1.4                                     | Finalize Timeline  | Neel Mistry              | Wed 11/20/24 | Fri 11/22/24 | 3        | 100%       | 3               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 2                                       | Requirement Gathering  | Neel Mistry              | Mon 11/11/24 | Thu 11/14/24 | 4        | 100%       | 4               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 2.1                                     | Identify Ambiguities in Requirements                         | Neel Mistry              | Mon 11/11/24 | Tue 11/12/24 | 2        | 100%       | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 2.2                                     | Clarify Ambiguities with Additional Info                     | Neel Mistry              | Tue 11/12/24 | Wed 11/13/24 | 2        | 100%       | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 2.3                                     | Revisit Requirement Specifications                           | Neel Mistry              | Wed 11/13/24 | Thu 11/14/24 | 2        | 100%       | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3                                       | Task Testing   | Sohan Chatterjee         | Thu 11/14/24 | Sat 11/23/24 | 10       | 0%         | 7               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3.1                                     | Implement Functions for Requirement Specifications (MRTD.py) | Ahmad Shah               | Thu 11/14/24 | Sat 11/16/24 | 3        | 0%         | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3.2                                     | Write Test Cases for Each Function (MTTTest.py)              | Sohan Chatterjee         | Sun 11/17/24 | Mon 11/18/24 | 2        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3.3                                     | Generate Coverage Report and Ensure >80% Coverage            | Sohan Chatterjee         | Tue 11/19/24 | Tue 11/19/24 | 1        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3.4                                     | Perform Mutation Testing Using MuPy                          | Sohan Chatterjee         | Wed 11/20/24 | Thu 11/21/24 | 2        | 0%         | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3.5                                     | Submit Code Repository LPL & POP Report                      | Ahmad Shah               | Fri 11/22/24 | Fri 11/22/24 | 1        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 3.6                                     | Create Additional Test Cases (Bonus Point)                   | Sohan Chatterjee         | Sat 11/23/24 | Sat 11/23/24 | 1        | 0%         | 0               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4                                       | Performance Testing  | Sara Gaber               | Sat 11/23/24 | Sat 11/30/24 | 8        | 0%         | 5               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4.1                                     | Measure Execution Times for First 100 Records                | Sara Gaber               | Sat 11/23/24 | Sat 11/23/24 | 1        | 0%         | 0               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4.2                                     | Measure Execution Times for First 1000 Records               | Sara Gaber               | Sun 11/24/24 | Mon 11/25/24 | 2        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4.3                                     | Measure Execution Times for First 10000 Records              | Sara Gaber               | Tue 11/26/24 | Tue 11/26/24 | 1        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4.4                                     | Write Execution Times to CSV                                 | Sara Gaber               | Wed 11/27/24 | Thu 11/28/24 | 2        | 0%         | 2               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4.5                                     | Generate Plot of Execution Times (CSV Data)                  | Sara Gaber               | Fri 11/29/24 | Fri 11/29/24 | 1        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 4.6                                     | Write 1-2 Paragraphs Explaining Results                      | Sara Gaber & Neel Mistry | Sat 11/30/24 | Sat 11/30/24 | 1        | 0%         | 0               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 5                                       | Test Planning  | Ahmad Shah               | Sat 11/30/24 | Fri 12/06/24 | 7        | 0%         | 5               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 5.1                                     | Create Test Plan for MRTD System                             | Ahmad Shah               | Sat 11/30/24 | Sat 11/30/24 | 1        | 0%         | 0               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 5.2                                     | Write Introduction Section of Test Plan                      | Neel Mistry              | Sun 12/01/24 | Sun 12/01/24 | 1        | 0%         | 0               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 5.3                                     | Write Testing Strategy & Scope Sections                      | Sohan Chatterjee         | Mon 12/02/24 | Mon 12/02/24 | 1        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |
| 5.4                                     | Write Testing Approach Section                               | Sohan Chatterjee         | Tue 12/03/24 | Tue 12/03/24 | 1        | 0%         | 1               |   |                       |    |    |    |    |    |    |    |                       |    |    |    |    |    |    |    |                       |    |    |    |   |   |   |   |                      |    |    |   |  |  |  |  |

[1] Work Breakdown Structure:

Level 1: 1, 2, 3, ...

Level 2: 1.1, 1.2, 1.3,

Level 3: 1.1.1, 1.1.2,

The WBS uses a formula to control the numbering, but the formulas are different for different levels.

[2] Task:

Enter the name of each task and sub-task. Use spaces to indent sub-tasks.

[3] Task Lead

Enter the name of the Task Lead in this column.

[4] Task Start Date:

You can manually enter the Start Date for each task or use a formula to create a dependency on a Predecessor. For example, you could enter =enddate+1 to set the Start date to the next calendar day, or =WORKDAY(enddate,1) to set the Start date to the next work day (excluding weekends), where enddate is the cell reference for the End date of the Predecessor task.

[5] End Date:

Calculated based on the Start Date and the duration of the task.

[6] Duration:

The duration is the number of calendar days for the given task.

[7] Percent Complete:

Update the status of this task by entering the percent complete (between 0% and 100%).

[8] Work Days:

Work Days exclude Saturday and Sunday. The Pro version allows you to use this column as an input.