

| ID | Task Mode | Task Name  | Duration       | Start               | Finish              | Predecessors | Resource Names |
|----|-----------|--|----------------|---------------------|---------------------|--------------|----------------|
| 1  |           | <b>Task 1: Develop Model</b>                       | <b>49 days</b> | <b>Wed 11/29/23</b> | <b>Fri 1/26/24</b>  |              |                |
| 2  |           | <b>Complete a literature search</b>                | <b>3 days</b>  | <b>Wed 11/29/23</b> | <b>Fri 12/01/23</b> |              |                |
| 3  |           | Define search parameters                           | 1 day          | Wed 11/29/23        | Wed 11/29/23        |              | JP878          |
| 4  |           | Search academic databases                          | 1 day          | Thu 11/30/23        | Thu 11/30/23        | 3            | JP878          |
| 5  |           | Collect relevant articles                          | 1 day          | Fri 12/01/23        | Fri 12/01/23        | 4            | JP878          |
| 6  |           | <b>Complete a literature review</b>                | <b>3 days</b>  | <b>Thu 11/30/23</b> | <b>Mon 12/04/23</b> | <b>2</b>     |                |
| 7  |           | Summarize findings                                 | 1 day          | Thu 11/30/23        | Thu 11/30/23        |              | JP878          |
| 8  |           | Analyze collected literature                       | 1 day          | Fri 12/01/23        | Fri 12/01/23        | 7            | JP878          |
| 9  |           | Identify research gaps                             | 1 day          | Mon 12/04/23        | Mon 12/04/23        | 8            | JP878          |
| 10 |           | <b>Identify and collect suitable data</b>          | <b>3 days</b>  | <b>Tue 12/05/23</b> | <b>Thu 12/07/23</b> | <b>6</b>     |                |
| 11 |           | Define data requirements                           | 1 day          | Tue 12/05/23        | Tue 12/05/23        |              | JP878          |
| 12 |           | Source or create datasets                          | 1 day          | Wed 12/06/23        | Wed 12/06/23        | 11           | JP878          |
| 13 |           | Preprocess data                                    | 1 day          | Thu 12/07/23        | Thu 12/07/23        | 12           | JP878          |
| 14 |           | <b>Develop a suitable ASL Fingerspelling model</b> | <b>28 days</b> | <b>Fri 12/08/23</b> | <b>Tue 1/16/24</b>  | <b>10</b>    |                |
| 15 |           | Design model architecture                          | 7 days         | Fri 12/08/23        | Mon 12/18/23        |              | JP878          |
| 16 |           | Write and debug code                               | 14 days        | Tue 12/19/23        | Fri 1/05/24         | 15           | JP878          |
| 17 |           | Initial model testing                              | 7 days         | Mon 1/08/24         | Tue 1/16/24         | 16           | JP878          |
| 18 |           | <b>Evaluate the model</b>                          | <b>8 days</b>  | <b>Wed 1/17/24</b>  | <b>Fri 1/26/24</b>  | <b>14</b>    |                |
| 19 |           | Develop evaluation criteria                        | 2 days         | Wed 1/17/24         | Thu 1/18/24         |              | JP878          |
| 20 |           | Quantitative and qualitative analysis              | 2 days         | Fri 1/19/24         | Mon 1/22/24         | 19           | JP878          |
| 21 |           | Adjust model based on feedback                     | 4 days         | Tue 1/23/24         | Fri 1/26/24         | 20           | JP878          |
| 22 |           | Task 1 Complete                                    | 0 days         | Fri 3/01/24         | Fri 3/01/24         |              | JP878          |
| 23 |           | <b>Task 2: Build Application</b>                   | <b>30 days</b> | <b>Mon 3/04/24</b>  | <b>Fri 4/12/24</b>  | <b>22</b>    |                |
| 24 |           | <b>Scope Definition</b>                            | <b>2 days</b>  | <b>Mon 3/04/24</b>  | <b>Tue 3/05/24</b>  |              |                |
| 25 |           | Write Project Charter                              | 1 day          | Mon 3/04/24         | Mon 3/04/24         |              | JP878          |
| 26 |           | Create Project Plan                                | 1 day          | Tue 3/05/24         | Tue 3/05/24         | 25           | JP878          |
| 27 |           | Define MVP Features                                | 1 day          | Tue 3/05/24         | Tue 3/05/24         |              | JP878          |
| 28 |           | <b>Requirements Gathering</b>                      | <b>5 days</b>  | <b>Mon 3/11/24</b>  | <b>Fri 3/15/24</b>  | <b>24</b>    |                |
| 29 |           | Conduct Qualitative Research                       | 2 days         | Mon 3/11/24         | Tue 3/12/24         |              | JP878          |
| 30 |           | Host Focus Group                                   | 5 days         | Mon 3/11/24         | Fri 3/15/24         |              | JP878          |
| 31 |           | Research Mobile/Existing Kiosks                    | 3 days         | Mon 3/11/24         | Wed 3/13/24         |              | JP878          |
| 32 |           | <b>Technical Feasibility Study</b>                 | <b>2 days</b>  | <b>Thu 3/14/24</b>  | <b>Fri 3/15/24</b>  |              |                |
| 33 |           | Assess Hardware                                    | 2 days         | Thu 3/14/24         | Fri 3/15/24         |              | JP878          |
| 34 |           | Analyze Integration Points                         | 1 day          | Thu 3/14/24         | Thu 3/14/24         | 33SS         | JP878          |
| 35 |           | <b>User Experience Design</b>                      | <b>4 days</b>  | <b>Mon 3/18/24</b>  | <b>Thu 3/21/24</b>  |              |                |
| 36 |           | Sketch Wireframes                                  | 1 day          | Mon 3/18/24         | Mon 3/18/24         |              | JP878          |
| 37 |           | Conduct Usability Testing                          | 3 days         | Tue 3/19/24         | Thu 3/21/24         | 36           | JP878          |
| 38 |           | <b>Development Environment Setup</b>               | <b>4 days</b>  | <b>Mon 3/11/24</b>  | <b>Thu 3/14/24</b>  |              |                |
| 39 |           | Select Languages/Frameworks                        | 2 days         | Mon 3/11/24         | Tue 3/12/24         |              | JP878          |
| 40 |           | Configure Environments                             | 2 days         | Wed 3/13/24         | Thu 3/14/24         | 41,39SS      | JP878          |
| 41 |           | Establish Tools                                    | 2 days         | Mon 3/11/24         | Tue 3/12/24         |              | JP878          |
| 42 |           | <b>Prototype Development</b>                       | <b>20 days</b> | <b>Fri 3/15/24</b>  | <b>Thu 4/11/24</b>  | <b>38</b>    |                |
| 43 |           | Implement Core Functions                           | 6 days         | Fri 3/15/24         | Fri 3/22/24         |              | JP878          |
| 44 |           | Develop Front-end                                  | 6 days         | Fri 3/22/24         | Fri 3/29/24         | 35           | JP878          |
| 45 |           | Integrate ASL Module                               | 14 days        | Mon 3/25/24         | Thu 4/11/24         | 43           | JP878          |
| 46 |           | <b>Testing</b>                                     | <b>19 days</b> | <b>Mon 3/18/24</b>  | <b>Thu 4/11/24</b>  | <b>42SS</b>  |                |
| 47 |           | Develop Test Cases                                 | 3 days         | Mon 3/18/24         | Wed 3/20/24         |              | JP878          |
| 48 |           | Perform Testing                                    | 3 days         | Thu 3/21/24         | Mon 3/25/24         | 47           | JP878          |
| 49 |           | Fix Bugs   | 19 days        | Mon 3/18/24         | Thu 4/11/24         |              | JP878          |
| 50 |           | <b>Iterative Feedback and Improvement</b>          | <b>13 days</b> | <b>Tue 3/26/24</b>  | <b>Thu 4/11/24</b>  |              |                |
| 51 |           | Refine Features                                    | 5 days         | Tue 3/26/24         | Mon 4/01/24         |              | JP878          |
| 52 |           | Gather User Feedback                               | 2 days         | Tue 3/26/24         | Wed 3/27/24         | 51SS         | JP878          |
| 53 |           | Update Project Plan                                | 13 days        | Tue 3/26/24         | Thu 4/11/24         | 51SS         | JP878          |
| 54 |           | <b>Documentation</b>                               | <b>21 days</b> | <b>Fri 3/15/24</b>  | <b>Fri 4/12/24</b>  |              |                |
| 55 |           | Write Manual                                       | 21 days        | Fri 3/15/24         | Fri 4/12/24         |              | JP878          |
| 56 |           | Document Code                                      | 21 days        | Fri 3/15/24         | Fri 4/12/24         | 55SS         | JP878          |
| 57 |           | Task 2 Complete                                    | 0 days         | Fri 4/12/24         | Fri 4/12/24         |              | JP878          |
| 58 |           | <b>Complete Presentation Poster</b>                | <b>5 days</b>  | <b>Fri 1/12/24</b>  | <b>Thu 1/18/24</b>  | <b>23</b>    |                |
| 59 |           | Define key messages and objectives                 | 1 day          | Fri 1/12/24         | Fri 1/12/24         |              | JP878          |
| 60 |           | Design layout and select template                  | 1 day          | Mon 1/15/24         | Mon 1/15/24         | 59           | JP878          |
| 61 |           | Create graphics and write content                  | 1 day          | Tue 1/16/24         | Tue 1/16/24         | 60           | JP878          |
| 62 |           | Arrange content and print poster                   | 1 day          | Wed 1/17/24         | Wed 1/17/24         | 61           | JP878          |
| 63 |           | Prepare accompanying presentation                  | 1 day          | Thu 1/18/24         | Thu 1/18/24         | 62           | JP878          |
| 64 |           | <b>Complete Final Report</b>                       | <b>137 day</b> | <b>Fri 11/03/23</b> | <b>Mon 5/13/24</b>  |              |                |
| 65 |           | Gather all data and findings                       | 26 days        | Fri 11/03/23        | Fri 12/08/23        |              | JP878          |
| 66 |           | Outline report structure                           | 26 days        | Fri 11/03/23        | Fri 12/08/23        | 65SS         | JP878          |
| 67 |           | Write, review, and revise report sections          | 113 day        | Fri 11/03/23        | Tue 4/09/24         | 65SS         | JP878          |
| 68 |           | Compile references and appendices                  | 22 days        | Fri 11/03/23        | Mon 12/04/23        | 65SS         | JP878          |
| 69 |           | Finalize and proofread report                      | 24 days        | Wed 4/10/24         | Mon 5/13/24         | 67           | JP878          |

