**Project Status Report I**

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| Date of Report Issue/Prepared: 31January 2025 |

Report Prepared By Team Members: Manvi Gumber, Meet Patel, Harin Reddy, Shyam Patel

Employer/Organization (if applicable) : Sriven Security

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| Project Name:  Project Team:  Period Reporting:  Overall Project Health | ShiftSmart | |
| T37 | |
| Start Date: **Jan 06, 2025** | End Date: **Jan 31, 2025** |
| Green (Good) | |

Summary

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| **Project Status Summary** |
| The ShiftSmart project is progressing well, with core development activities on schedule. The backend development has made significant progress, including the successful setup of the project environment, configuration of necessary development tools, and integration with MongoDB Atlas for database management. The core database schema for managing Workers, Sites, Shifts, Assignments, and Availability has been fully designed and implemented.  The team has developed RESTful API endpoints to manage worker registration, shift creation, site management, and assignment tracking. These APIs have been tested for basic functionality, with partial advanced testing in progress. Additionally, the initial UI wireframes for the worker dashboard and admin panel have been created, providing a clear design direction for frontend development.  We have established version control workflows using GitHub for seamless collaboration and code integration. Furthermore, continuous deployment pipelines are being tested to ensure smooth deployment processes in future development phases. |

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| **Accomplishments As Planned** | **Planned but not Accomplished** |
| * Completed project setup and environment configuration. * Designed and implemented core database schema (Workers, Sites, Shifts, Assignments, Availability). * Developed RESTful API endpoints for worker registration, shift management, site management, assignment tracking, and availability updates. * Integrated MongoDB Atlas with the project. * Created initial UI wireframes for worker dashboard and admin panel. * Implemented basic API testing with functional validation. * Established GitHub workflows for version control and CI/CD pipelines. * Documented API specifications. * Conducted peer code reviews for quality assurance. | * Full implementation of the notification system (partially completed; backend logic drafted). * Complete testing of all API endpoints (advanced test cases pending). * Designed and implemented core database schema (Workers, Sites, Shifts, Assignments, Availability). * Full UI development for admin panel. * Comprehensive security audit and code review. |

Upcoming Objectives for **Feb 01, 2025 to Mar 27, 2025**

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|  | | **Planned Activities/Tasks for Next Period** | |  |
| Activity/Task | Assigned To  <name/s> | | Duration  <days> | Date |
| Complete API development for assignments | Harin Reddy | | |  |  | | --- | --- | |  | 7 | | Feb 1 - Feb 7 |
| Implement notification system | |  |  | | --- | --- | |  | Manvi Gumber | | | 10 | Feb 5 - Feb 15 |
| Conduct end-to-end API testing | Harin Reddy | | 5 | |  |  | | --- | --- | |  | Feb 21- Feb 25 | |
| Integrate frontend with backend APIs | Meet Patel | | 14 | Feb06 - Feb 20 |
| Designed and implemented core database schema | Shyam Patel | | 5 | 5Dec-10Dec |
| Develop frontend UI for worker dashboard | Manvi Gumber | | 5 | Feb 1 - Feb 14 |
| Conduct end-to-end API testing | Shyam Patel | | 5 | |  |  | | --- | --- | |  | Feb 15 - Feb 20 | |
| Integrate frontend with backend APIs | Team | | 10 | Feb 21 - Mar 2 |
| Finalize user authentication and authorization | |  |  | | --- | --- | |  | Meet Patel | | | 4 | Feb 18 - Feb 21 |
| Conduct usability testing for UI/UX | Manvi Gumber | | 5 | Feb 22 - Feb 26 |
| Optimize API performance and database queries | Shyam Patel | | 30 | Feb 20 - Mar 20 |
| Complete API documentation and code comments | Team | | 5 | Mar 20-Mar25 |
| Deployment of final application | Team | | 5 | |  |  | | --- | --- | |  | Mar 25 - Mar 27 | |
| Collection of post-deployment feedback | Team | | 2 | Mar 26 - Mar 27 |

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|  | **Milestones for Next Period** | | |
| Milestone (Objective) | | Assigned To | Delivery Date |
| Fully functional worker assignment module | | |  |  | | --- | --- | |  | Harin Reddy | | Feb 7, 2025 |
| Notification system implemented | | Meet Patel | Feb 15, 2025 |
| Worker dashboard UI completed | | |  |  | | --- | --- | |  | Meet Patel | | Feb 14, 2025 |
| Integrated frontend-backend prototype | | team | Mar 2, 2025 |
| User authentication flow finalized | | |  |  | | --- | --- | |  | Harin Reddy | | March 15, 2025 |
| Usability test report completed | | |  |  | | --- | --- | |  | Meet Patel | | Feb 21, 2025 |
| Security vulnerabilities report submitted | | Manvi Gumber | Feb 26, 2025 |
| Optimized API performance achieved | | |  |  | | --- | --- | |  | Shyam Patel | | Mar 3, 2025 |
| Final API documentation submitted | | Team | Mar 7, 2025 |
| Final application deployed | | Team | Mar 25, 2025 |
| Post-deployment feedback report | | Team | Mar 27, 2025 |

Managing Issues and Risk (for current reporting period and next period)

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| **Issues/Problems** | **Resolution Strategy** | **Due Date** |
| Delay in notification system integration | Allocate additional resources if needed | Feb 15, 2025 |
| API testing revealing minor bugs | Conduct thorough debugging sessions | Feb 20, 2025 |
| |  |  | | --- | --- | | Authentication flow inconsistencies |  | | Refactor code with standardized methods | Feb 13, 2025 |
| UI/UX usability feedback indicating confusion | Redesign problematic UI components | Feb 21, 2025 |
| Deployment pipeline configuration issues | Troubleshoot with CI/CD tools' support | Mar 2, 2025 |
| Post-deployment bugs identified | |  |  | | --- | --- | |  | Apply hotfixes and patches immediately | | Mar 27, 2025 |

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| **Upcoming Risks** | **Risk Ranking**  **(Hi, Med, Low)** | **Risk Impact**  **(Hi, Med, Low)** | **Mitigation Strategy** |
| Integration Failure with payroll System | Med | Hi | Perform through testing before go live ,have a fall back process in case of failure |
| Incomplete API documentation | Low | Med | Assign dedicated time for documentation |
| Security vulnerabilities due to rapid changes | Hi | Low | Ensure redundancy and backup systems are in place; conduct regular system maintenance. |
| Poor user feedback from usability testing | Med | Med | Develop a comprehensive testing plan that includes unit, integration, and user acceptance testing (UAT) to identify and resolve issues before launch. |
| Third party Dependencies | Med | Med | Establish clear communication channels with third-party providers. Monitor their progress and have backup options. |
| Notification System Failures | Med | Hi | Utilize multiple channels for notifications (email, SMS) and establish a backup notification process to ensure alerts are sent out reliably. |

**NOTE: Attach additional sheets if insufficient space available**

**Submission Guidelines:**

Please submit as “W25\_T<team number>\_ProjectReport1”.

For e.g., W25\_T99\_ProjectReport1

This is a group submission i.e. one per group.

**Due Dates:**

**Sunday, Feb 02, 2025 (11:59 p.m.)**