**Project Summary Template**

This document is intended to provide a summary understanding of the high-level vision of our project goals.

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| **Company Name/ Team Name** | MMHS | |
| **Company Address** | N/A | |
| **Company Website** | N/A | |
| **Telephone** | N/A | |
| **Company Contact/ Team member names** | Manvi Gumber  Meet Dipakbhai Patel  Harin Reddy Ramasani  Shyam DhimantKumar Patel | |
| **Title** | ShiftSmart | |
| **Company Email/ Email address for all team members** | Manvi Gumber: [manvi.gumber@georgebrown.ca](mailto:manvi.gumber@georgebrown.ca)  Meet Dipakbhai Patel: [Meetdipakbhai.patel@georgebrown.ca](mailto:Meetdipakbhai.patel@georgebrown.ca)  Harin Reddy Ramasani: [harinreddy.ramasani@georgebrown.ca](mailto:harinreddy.ramasani@georgebrown.ca)  Shyam DhimanKumar Patel: [Shyamdhimantkumar.patel@georgebrown.ca](mailto:Shyamdhimantkumar.patel@georgebrown.ca) | |
| **Telephone** | Manvi Gumber: 6476243809  Meet Patel: 4372541210  Harin Reddy: 2498790422  Shyam Patel: 4372681707 | |
| **Project Title** | Worker’s Scheduling Project | |
| **Project**  **Description** | **About the company:**  The company specializes in developing innovative digital solutions to optimize workplace management and streamline operations. With a focus on providing flexible, user-friendly platforms, the company caters to industries such as retail, security, and manufacturing. Their goal is to empower businesses with tools that enhance employee productivity, improve scheduling efficiency, and reduce administrative workload, all while fostering a positive work environment.  **About the project:**  The project is a Worker Scheduling Application designed to automate and optimize employee shift scheduling. It addresses common challenges like manual scheduling inefficiencies, shift swapping, and last-minute changes. The application utilizes Worker's availability, and real-time notifications to create a dynamic scheduling system. Key features include CRUD Operations for workers, Scheduling and Updating Worker's, Payroll generation and invoices, and dashboard for advanced analytics and insights. The platform aims to improve both managerial oversight and employee satisfaction by offering seamless scheduling, real-time adjustments, and enhanced communication tools. | |
| **Problem/**  **Opportunity Assessment \*** | *Please describe current state problem/opportunity that describes the nature and extent of the problem (factual, quantified, concise), or that outlines a chance for advancement or progress.* | |
| 1.  2.  3.  4. | The current state of employee shift scheduling is often handled manually, which leads to inefficiencies like errors, miscommunication, and time-consuming processes. This can result in overstaffing, understaffing, or schedule conflicts, which negatively impact both business operations and employee satisfaction.  Managers and employees face difficulties when managing last-minute changes, such as employee call-offs or shift swaps. Without a streamlined system, these changes lead to operational disruptions, reduced employee morale, and higher labor costs  Many organizations lack tools to facilitate real-time notifications and dynamic adjustments to schedules. This absence reduces the ability to respond quickly to staffing needs, ultimately hindering productivity and employee engagement. Additionally, the lack of advanced analytics makes it difficult for managers to optimize scheduling and monitor key performance metrics.  Many organizations lack tools for payroll generations and invoices, they often use manual messages, and papers to make notes of the number of hours worked by workers. This manual approach is prone to errors, leading to inefficiencies and delays in processing payments, which affects both the business and its workers. |
| **Desired Project**  **Outcomes/**  **Requirements\*** | *Define how this project shall address a business need, e.g. the business problem or opportunity described above; describe what the beneficiary must be able to do / receive from the solution* | |
| 1.  2.  3.  4. | The solution must automate shift scheduling based on employee availability, reducing errors and inefficiencies associated with manual scheduling. This will streamline operations, minimize overstaffing/understaffing, and eliminate schedule conflicts, ultimately improving both business productivity and employee satisfaction.  The system should enable real-time handling of shift swaps, last-minute changes, and call-offs. Managers and employees must be able to efficiently manage and approve shift changes, reducing operational disruptions and labor costs, while improving communication and flexibility.  The application must provide real-time notifications for schedule updates, reminders, and changes to both managers and employees. Additionally, the platform should offer advanced analytics to help managers optimize staffing, monitor performance, and predict future workforce needs, leading to data-driven decision-making.  The solution should offer automated payroll and invoice generation by accurately tracking hours worked, eliminating the need for manual record-keeping. This will reduce errors, improve payment accuracy, and streamline payroll processing, enhancing operational efficiency and worker satisfaction. |
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| **Key Deliverables to be produced by students\*** | *Define the boundaries of work that you expect to receive from the students effort (vs. internal effort)* | |
| 1.  2.  3. | We are expected to develop a complete worker scheduling platform that automates shift scheduling, manages employee availability, and handles shift swaps. The application should include features for CRUD operations (Create, Read, Update, Delete) for workers and shift schedules.  The project must deliver integrated payroll generation based on hours worked and an analytics dashboard that provides real-time insights and reports on key performance metrics like attendance, shift efficiency, and labor costs.  The students should develop a notification system that alerts both employees and managers of upcoming shifts, last-minute changes, and approvals for shift swaps or time-off requests. It should also include real-time communication tools to improve manager-employee interactions |
| **Desired Start Date** | 13th September 2024 | |
| **Desired End Date** |  | |