

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	01 Nov 2023
Team ID	NM2023TMID04457
Project Name	Building a website using canva

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Order processing during pandemics for offline mode

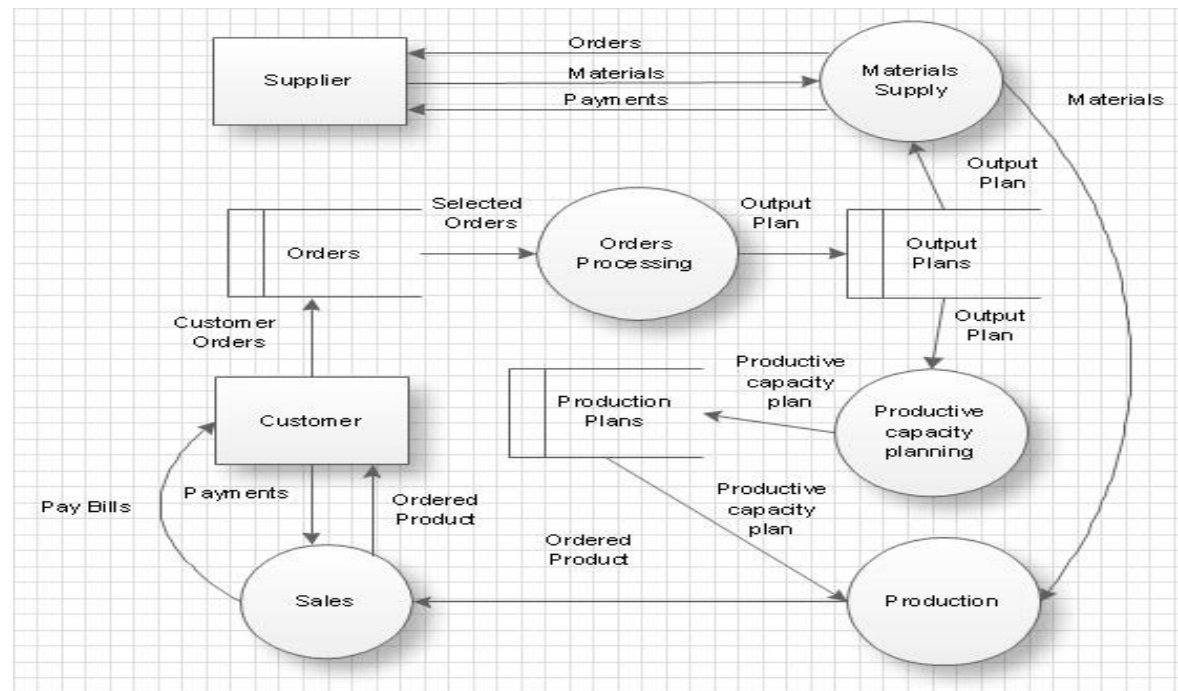


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	Location	Select a suitable location for the cafe, taking into account factors like foot traffic, accessibility, and proximity to your target.	Geographic Information Systems (GIS) and mapping tools.
2.	Space and Layout	Plan the interior design and layout of the cafe to accommodate seating, a kitchen area, counter space, and any additional features like outdoor seating.	Implement Computer-Aided Design (CAD) software for efficient cafe layout planning.
3.	Equipment	Acquire the necessary equipment, including coffee machines, grinders, ovens, refrigerators, dishwashers, and furniture.	Integrate IoT-enabled and smart appliances for operational efficiency.
4.	Menu	Develop a menu that includes coffee, tea, pastries, sandwiches, salads, or any other food and beverage items you plan to offer.	Employ digital menu boards and POS systems for dynamic and efficient menu management.
5.	Staffing	Hire and train baristas, kitchen staff, servers, and any other personnel required to run the cafe efficiently.	Scheduling and HR management software
6.	Suppliers	Establish relationships with suppliers for coffee beans, baked goods, and other ingredients to ensure a consistent and quality supply of products.	Implement procurement and supply chain management software for automated supplier interactions.
7.	Books	Stock a variety of books, including novels, non-fiction, and children's books.	Offer e-books and e-readers, with e-reader devices and management platforms.
8.	Wi-Fi	Provide Wi-Fi access for customers who want to work or study.	Provide secure Wi-Fi using Wi-Fi management software.
9.	Reservation System	An online reservation system allows customers to book tables, enhancing user experience and streamlining cafe operations.	HTML,CSS,JavaScript
10.	SEO Integration	Basic SEO practices improve the website's visibility in search engine results, attracting more organic traffic.	SEO tools, plugins, and best practices.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Scalability	The website should be able to handle increased user traffic and content growth.	Scalable hosting infrastructure and CMS.
2.	Security	Implement robust security measures to protect user data and safeguard against cyber threats.	SSL, security plugins, encryption.
3.	Performance	Ensure the website loads quickly and offers a smooth user experience.	Content optimization, fast hosting.
4.	User-Friendly Interface	Create an intuitive and visually appealing design for a positive user experience.	Responsive web design, user interface design.
5.	SEO-Friendly	Implement SEO best practices to improve search engine visibility.	SEO tools, meta tags, keyword optimization.
6.	Mobile Optimization	Optimize the website for mobile devices to cater to users on smartphones and tablets.	Responsive design, mobile optimization.
7.	Accessibility	Ensure the website is accessible to all users, including those with disabilities.	Accessibility standards, assistive technologies
8.	Data Management	Efficiently manage and back up data to prevent data loss and ensure data security.	Data backup solutions, databases.
9.	Analytics and Monitoring	Use analytics tools to monitor user behavior and track website performance.	Google Analytics, monitoring tools.
10.	Social Media Integration	Use analytics tools to monitor user behavior and track website performance.	Social media widgets, APIs.