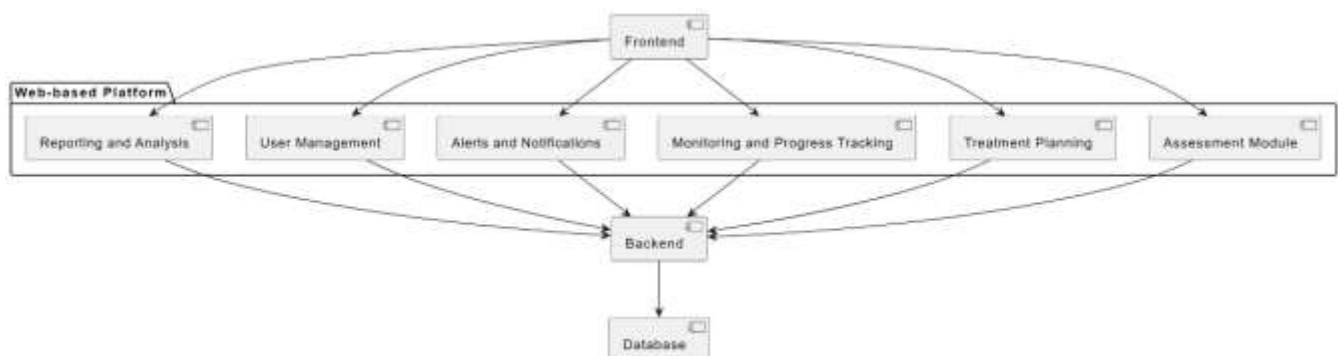


PROJECT PLANNING PHASE

TECHNOLOGY STACK (ARCHITECTURE & STACK)

DATE	24 October 2023
PROJECT NAME	Depression: A Common Mental Disorder
MAXIMUM MARKS	4 Marks

TECHNICAL ARCHITECTURE:



COMPONENTS AND TECHNOLOGIES:

Characteristics	Description	Technology Used
Hosting Platform	The platform where the website will be hosted and made accessible to users.	Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Heroku
Domain Name	The web address users will use to access the site.	Domain registrar (e.g., GoDaddy, Namecheap), DNS management services
SSL Certificate	Provides secure and encrypted communication between the user's browser and the server.	Let's Encrypt, SSL certificate providers
Content Delivery Network (CDN)	Enhances website performance by caching content on servers geographically closer to users.	Cloudflare, Akamai, Amazon CloudFront
Backup and Recovery	Ensures data and application recovery in case of unforeseen events or data loss.	Automated backup solutions, database snapshots
Application Scalability	The ability of the application to handle increased user load without performance degradation.	Load balancers, auto-scaling configurations
Content Management System (CMS)	Allows for easy creation, management, and modification of website content	WordPress, Joomla, Drupal
Database	The system used for storing and managing application data.	MySQL, PostgreSQL, MongoDB
Web Server	The software responsible for processing HTTP requests from users' browsers.	Apache, Nginx, Microsoft IIS
Application Framework	Provides a foundation for building and deploying web applications.	Django, Ruby on Rails, Express.js
Frontend Framework/Libraries	Tools for creating interactive and responsive user interfaces.	React, Angular, Vue.js
Security Measures	Protocols and technologies used to protect user data and ensure secure interactions.	HTTPS, firewalls, intrusion detection systems (IDS), Web Application Firewalls (WAF)

Social Media Integration	Allows users to share content from the website on social media platforms.	Social sharing plugins, Open Graph tags
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