

Case Studies

Healthcare Solutions

Online Dietician

Overview:

The application is a Food/Menu request System which will enable users to find different food calories as per their health and body type. The user can request via sending text message or selection the items and quantity. Users can get the suggestion on their mobile as per their request.

Calories calculator allows them to calculate the actual calories in each food.

The application can be divided into two subsystems. The subsystems namely are following: -

- Presentation Layer
- Administrative subsystem

Presentation Layer will allow users to register themselves and send their request for calories information via text messages. Users can also check for their daily diet or calories that they are consuming in their food by selecting specific food preparations; food menu for their healthy life by website suggestions and recommendations.

Administrative subsystem will allow the administrator of the portal to manage various aspects of the website. Some of them are managing users, food/menu, categories, request messages, and other content of the website. Administrative subsystem will also enable administrators to generate various reports to analyze usage of the website.

Key Requirements:

The business requirement of the project was to develop an enterprise application “Telephone Food System” for the users who are interested in suggestions for specific diets, may have weight management targets, Food menus & calories according to their health. Software also allows users to receive health check reminders, lab results notification and weight management guidance.

Technology Used:

- ASP.Net
- C#
- MS SQL 2005
- XML
- SMS Gateway
- Compact Framework 2.0

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Key Features:

- Calorie Calculator
- Healthy Food Menu
- Request for Consultancy
- Special Diet Request
- An alert message on patient's mobile.
- Keep track the Customer, Request & other details.
- Detailed reporting
- Searchable database with very high end presentation
- Easy manageable for end-user and administrator.
- Email Notifications where ever possible to users

Challenges:

- HIPPA Compliance
- Encryption of User's data in the database
- Alerts messages on User's mobile.
- Development and testing on mobile device.
- SMS gateway integration.

Our Role:

We follow the basic rooted mantras of software engineering practices - Analysis, Planning, Design, Development, Testing and Deployment.

Define: - First is to define detailed scope of the requirements. This is done through a detailed study by the project manager to know the requirements. This process starts even before the project is awarded to us as our estimates are based on the amount of work involved and technological challenges. To estimate these we keenly study the project and the application scenario in real world before giving a quote

Plan and design: - Once the project is awarded to us, a SRS (Software Requirements specifications), Prototype with supporting High Level Designs (HLD), User Interface, Class Diagram and Database Diagrams are prepared. These design documents and prototype are sent to clients for approval.

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Develop: - Upon approval, we start coding. All our codes are well commented and follow naming conventions. We have a well defined multi-tier architecture and each developer adheres to it.

Test: - Testing phase begins with the planning. As soon as HLD is frozen, we prepare test plans and cases. Application is tested parallel to development making sure that there are no errors. Once the development is completed, the application is tested from scratch to make sure all modules are well integrated.

Debug: - The testing results are then converted in actions for debugging and solving the bugs. Once all the bugs are fixed by the developers Quality team verifies the bugs and reports any reproduced bugs. This process continues till all bugs are fixed.

Deployment: - Project leader reviews the application and makes sure that the application fulfils the Service Level Agreement (SLA) and is in line with other functional and non functional requirements. Upon approval application is deployed to the production server.

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