National College of Ireland

Requirements Elicitation and Analysis Document

Topic: Fitness - Gym and Nutrition

Website: http://gymandnutrition.com

CA 2: Usability Design Project Deliverable 1

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1 Executive Summary

We all know the importance of being physically fit. A fit person is capable of living life to its fullest extent and enjoy the internal happiness. Eating a balanced diet full of nutrients and including physical activity like sports or gym or both helps us release stress, anxiety and sweat out the harmful substances out of our bodies, which helps us prevent diseases, improves mood and helps sleep better. Physical fitness is directly linked to our mental, cardiovascular health etc.

But the sad thing these days is most of the human population (mainly in cities) is consuming processed and fast foods which leads to excessive weight gain and various health problems.

So, we have decided to re-develop an existing website based platform which one of us (Navjot Singh) owns and to make it better, where people will be able to read information on nutrition, gym workouts, meal plans etc. Which will help millions of people around the world to accomplish their fitness goals and live more fulfilling life.

The aim of this report is to gather requirements of this system from the users and other stakeholders like owner, fitness athletes etc. and perform data analysis.

Lets, start with identifying stakeholders –

2 Identification of Stakeholders

Users/Clients/Fitness Enthusiasts
Users will use our website to see the nutritional information of foods, gym workouts, meal plans, How to? Videos and content and ask their questions on the website forum and also contribute/help other member of the site by answering their questions.

Admin/Owner/ Sponsors
Admin or owner would use the website to add new content, moderate content and add new accounts and do other administrative tasks like approving and rating the articles posted by users and content writers.

Developers/Support Team
The website will be developed by Navjot Singh. Any problems with the site will be seen by him and support team will use the website to provide useful articles/tips on site, on How to use the site and its different components and help customers facing trouble with the ecommerce section of the site.

Fitness Athletes/Models
Fitness Athletes and Models will use the site to build their portfolio page with an profile image, about me description and their photos and videos and participate in the forum and create a social following.

Advertisers and Affiliates
Advertisers and Affiliates will use the website to view which pages (articles and products) are doing well on the site and contact the support team in order to advertise their products and services on that section/pages of the site.

Sports Complex/Gym Owners/Managers
Gym Owners and Managers will use the site to create a profile for their gym on the site and build social following and attract new clients in their areas, and they can access and allow people to rate and comment about their gym and improve/make changes based on the feedback.

Nutritionists

Nutritionists will use the website to build their profile and offer service and also provide information on foods and healthy eating and provide meal plans and different recipes on the website.

Body Builders

Body Builders will use the website to access workout information and the meal plans and recipes provided by nutritionist on the website and also ask their question and seek support to their problems in the forum.

Doctors

Doctors can use the website to provide useful health related information on the website in order to contribute towards the community as many doctors in this are very generous and kind and this way a lot many people will benefit from the experience and knowledge doctors will bring to the site.

Marketing Team

The marketing team will use the site to run different marketing campaigns, share articles and try different SEO and marketing techniques to achieve the goals.

Product Resellers/Retailers

Since, the fitness industry is huge our website will be selling self branded products and our product resellers will use a section on the site where they can buy products in bulk at reseller prices and also to see trends and which products/supplements are doing well in the market.

Content Writers and Moderators

The content writers will use the website from backend in like an admin but with limited administrative options like they will use the site to login with their account, write content, upload HD images and videos and be able moderate content on the site as well necessary, whereas the moderators will use the site to take out the unnecessary and bad quality materials from the site.

3 Data Gathering

Ali is doing

Techniques

Interviews

Survey

4 Data Analysis

User Groups Identified
Ali will do

Personas
Navjot

Scenarios
Ali will do

Task Analysis
Navjot and Ali will do

5 Requirements

Functional Requirements

Requirement 1: Easy to Use GUI/Interface
User Story
As a user I want to have an easy to use interface so I can navigate around the website easily with little time needed to be spent on how to use the website.

Description and Priority
The website shall have easy to use graphical user interface. Navigation will be possible through menus and sidebars and call to action buttons. The website shall also be responsive so as to support different screen sizes. Example, smartphones and tablets.
Essential and High Priority Requirement.

Requirement Activation
The requirement will be activated upon visiting the site.

Technical Issues
The GUI will be designed using different technologies like css and JavaScript and others slow internet connection can affect the performance of the GUI.

Risks
Provision must be taken that not all users have a good understanding of the technology and use of websites. If he GUI is too complex, the users may not use the website at all. The requirement is t the core to the success of the website.

Requirement 2: Search

User Story

As a user I want to be able to find articles, products, profiles and Q/A on the forum with ease.

Description and Priority

The website shall allow to search for all sorts of information on the website including products. This can be achieved by placing a search bar in the header and footer of the site along with that in the right/left sidebar of the site. *High Priority*.

Requirement Activation

The search requirement is activated when user enters their desired keywords in the search bar.

Technical Issues

N/A

Risks

The requirement is at the core to the success of the website if not implemented well may result in user dis-satisfaction.

Dependencies on other requirements

This requirement has dependency on the above requirement 1: Easy to Use GUI/Interface.

Requirement 3: User Registration and Login

User Story

As a user I shall be able to easily register within few seconds to get started and the website should also save my data when I login from a different system I shall be able to accesses all the information.

Description and Priority

The website shall provide an easy signup and login because the users will need this in order to contribute on the forum community and if they want to buy some products.
High Priority.

Requirement Activation

The requirement is activated when the user wants to buy products, contribute on the forum and want to use any other advanced features other then just crawling the site.

Technical Issues

Poor Internet connection may sometimes cause problems registering the user in that case the website shall provide with error handling.

Requirement 4: Support Forum

User Story
As a user I shall be able to ask questions to my problems on the website.

Description and Priority
The website shall provide an easy to use forum which allows the user to start topics/questions on the website after signing up on the website. And also, allow the user to subscribe to favourite topics, tags etc. And, contribute towards other people's questions and answers. *Very High Priority*.

Requirement Activation
The requirement is activated after signup on the website and when the user wishes to use the forum.

Technical Issues
N/A

Risks
Moderating the spammers on the site and only allowing the authentic users on the site.

Dependencies on other requirements
The requirement has a dependency on Requirement 3: User Registration and Login

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Requirement 5: User Profiles

User Story
As a user I shall be able to save and share my profile with people.

Description and Priority
The website shall provide the user with the opportunity to save his profile with description, photos and video gallery, cover photo and body measurements, before and after training profile section where user can share his progress. *Medium-High Priority*.

Requirement Activation
The requirement is activated upon user registration and users can edit their profiles.

Technical Issues
N/A

Dependencies on other requirements
The requirement has a dependency on Requirement 3: User Registration and Login

Requirement 6: Ecommerce Support

User Story
As a user I shall be able to purchase the nutrition and meal plans and other available products on the site.

Description and Priority
The website shall allow the user to buy products on the site with ease, it should have a product catalogue, user could add products to the cart, checkout and proceed to secure payment. *High Priority*.

Requirement Activation
The is activated when the user adds product to the cart upon visiting the product catalogue.

Technical Issues
Some users may face problems proceeding with payment due to various reasons like bad/unsecure internet connection.

Risks
Secure Payments and Achieving High Customer Satisfaction.

Dependencies on other requirements
The requirement has a dependency on Requirement 3: User Registration and Login

Requirement 7: Review and Comment System

User Story
As a user I shall be able to review and comment on the site and express myself.

Description and Priority
The website shall allow the user to comment and review once they are logged in. This will help maintain quality on the site and also help with SEO upon good user reviews.

Requirement Activation
The Review requirement is activated when a logged in user wishes to review a page, product, article, photo or video on the website. *Medium Priority*.

Technical Issues
N/A

Dependencies on other requirements

The requirement has a dependency on Requirement 3: User Registration and Login and Requirement 5: User Profile.

Requirement 8: Contact Form

User Story

As a user I shall be able to contact the people running the site.

Description and Priority

The website shall allow the user to contact the support team by providing a easy to fill contact form.

Requirement Activation

The requirement is activated when user visits the contact us page and fills in the details and click the submit button. *Low Priority*.

Technical Issues

N/A

Risks

Too many contact requests may cause delays in response time.

Dependencies on other requirements

N/A

Requirement 9: Subscribe

User Story

As a user I shall be able to subscribe and receive updates on my subscribed topic on the forum.

Description and Priority

The website shall allow the user to subscribe topics on the forum and send email notification upon new activity on that topic. *Medium-Low Priority*.

Requirement Activation

The requirement is activated when the user clicks subscribe button on a page.

Technical Issues

N/A

Risks

N/A

The requirement has a dependency on Requirement 3: User Registration and Login and Requirement 4: Support Forum.

Requirement 10: Easy Navigational Structure (Menus and Sidebars)

User Story

As a user I shall be able to navigate the site with ease.

Description and Priority

The website shall provide easy navigation through menus, sidebars and call-to-action buttons etc. and provide a link to homepage on every single page of the site. This will put user under ease and improve websites usability.

Requirement Activation

The requirement is activated upon visiting any page of the site.

Technical Issues

N/A

Risks

N/A

Dependencies on other requirements

The requirement has a dependency on the Requirement 1: Easy to Use GUI/Interface.

Non-Functional Requirements

Scalability Requirements

User Story

N/A

Description and Priority

With regards to the high number of users the website will be attracting from around the world. Since, this website is intended at global audience, the intention is for the system to be able to serve queries in thousand/hour through out the day, 7 days a week and the website should be scalable to accommodate these needs and be able to serve users from different time-zones with little to no changes to the website code. *High Priority.*

Security and Privacy Requirements

User Story

As a user I want the website to be safe and secure where my password and bank details are safely processed.

The website shall achieve security through encryption and SSL certificate when connecting to server and processing payments. *High Priority*.

Availability Requirements

User Story

As a user I want to be able to access the website at any time I wish.

Description and Priority

The website shall be available at all times throughout the year with prior notification in case of maintenance. This can be achieved using clean code practices on the backend so the website code is less error prone, using a good cloud service/hosting for the site that promises 99.9% uptime and through continuous improvements to the site without users noticing them. *High Priority*.

Reliability Requirements

User Story

As a user I want the website to be reliable in terms of content, availability and performance.

Description and Priority

The website shall be reliable i.e. stable and consistent of what is expected out of it. *Very High Priority*.

Physical Requirements

User Story

As a user I want to be able to access the website from just anywhere.

Description and Priority

The website shall work on devices with different screen sizes effectively like smartphones and tablets. *Medium-High Priority*.

Maintainability Requirements

User Story

N/A

Description and Priority

The website shall be easy to maintain on daily basis, some automation can be used and it must be easy to fix bugs, add new features, increase performance. *Medium Priority*.

Compatibility Requirements

User Story

As a user I shall be able to use the website from browser of my choice.

Description and Priority

The website shall be compatible with all the popular browsers like Chrome, Firefox, Safari and Internet Explorer. *High Priority*.