



Custom Fit Coding, LLC

“The leader in providing custom creative solutions for your business”

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Software Engineering Project Description Document

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February 21, 2011



Revisions

Version	Primary Author(s)	Description of Version	Date Completed
Initial Draft	Ryan Spoon Steve Totten Drew Salyer David Ball Stephanie Kinsella	Initial draft version.	02/21/2011

Review & Approval

Project Description Document Approval History

Approving Party	Version Approved	Signature	Date
David Ball			
Ryan Spoon			
D. P. Daugherty			

Project Description Document Review History

Reviewer	Version Reviewed	Signature	Date

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Team Information

Team Name

Custom Fit Coding, LLC

Project Title

Cooking to Goal

Team Mission/Vision

As members of Custom Fit Coding, LLC, we strive to provide custom, effective software solutions that are pertinent to individual business, small and large alike; to integrate quality solutions that fit the business model and budget of our clients; and affect real, positive change as we give back to the communities that engage us. We hope you will join us in our mission!

Project Objectives

Custom Fit Coding, LLC, will be designing and developing a meal planning and purchasing tool for the customer's clients. This tool will create a week's worth of menus to help clients meet their dietary goals as well as generate a shopping list containing items needed to prepare the meals. The program will have a setup screen to establish default planning assumptions for each client and will contain a recipe entry screen where clients may enter their own meal choices. Once the weekly menu is established, a quality calculator will be available to adjust portion sizes to assist in meeting the weekly nutritional limits. A graphical view will also be provided so the user can determine how their selections are affecting their weekly limit. This view may include detailed ingredients as well as nutritional panels.

Since system users will have limited familiarity with computers, our project will focus on being simple and intuitive. The program's user-friendly design will keep mistakes to a minimum by giving tips to guide users through the process without cluttering the interface.

Project Scope

The Cooking to Goal application will have an easy to navigate Graphical User Interface. The application will be used to help customers create and compare meals and menus for a weekly period. Users will be able to choose from multiple menu options that will allow them to select a variety of meals while meeting their nutritional goals. A weekly shopping list for groceries will be generated based upon their meal selections.

The application will have a setup screen to help the client establish their default planning assumptions, such as number of person served at a meal, their ages, genders,

and nutritional goals. There will also be a recipe entry screen where the user may enter their own meal choices which are stored for future use. Once a weekly menu is fixed, the application's quantity calculator will adjust portion size to meet the client's nutritional limits.

The application will also include a graphical view of how the client's choices are impacting their weekly limit as they make their menu selections. Useful but unobtrusive hints will be displayed to help users familiarize themselves with the system.

As a standalone application, the application scope does not necessitate a requirement for authentication or authorization. Any data must be stored locally on the customer's PC, either using plain text, formatted text such as XML, or an embeddable database file, such as Microsoft Access, Berkeley DB, or SQLite.

Project Prototype Success

The Cooking to Goal application will be preceded by a prototype with limited functionality set to gather feedback from the client and to understand the application's intended uses. This will ensure that Custom Fit Coding, LLC, shares the same, mutual goals as the customer: an intuitive application that delivers on the demands of the customer as well as an easy-to-navigate user interface that will likely promote continued use of the application throughout its intended lifespan.

A successful prototype will include basic features of the program's graphical user interface (GUI). This will bring the user to their own personalized "profile" page, which serves as the main landing page for the program. This page will display some basic information about the user, including a graphical display to chart their progress. From there, the user may easily access the other program features, including menus, recipes, and shopping lists through tabs located at the top of the screen. More advanced features will be implemented in the first major release.

Project Resources

● Human Resources

- Custom Fit Code, LLC Employees
- Client and System Users (Prototype Feedback)

● Non-Human Resources

- Google Docs Document Hosting
- Google Mail/Groups Forum Services
- Github.com Code Repository Hosting
- Eclipse IDE & EGit based on JGit
- Third Party APIs and Code Libraries
- Javadoc Documentation
- Business computers

- **Information Resources**
 - Product health information used to generate menu (eg. nutrition.gov website)

Key Stakeholders

- **Carpe Aurum Venture Capital**
 - David P. Daugherty, CEO
 - CAVC's stockholders and investors
 - CAVC's clients and customers (program users)
- **Custom Fit Coding, LLC**
 - David Ball
 - Stephanie Kinsella
 - Drew Salyer
 - Ryan Spoon
 - Steven Totten

Major Risks

Technology Risks

1. *Java SE: While Java SE is platform-independent, users must have the Java Runtime Environment installed to run the program.*
2. *Cost of storing data dependant upon technology utilized*
3. *Data integrity*

People Risks

1. *If too many of our programmers leave the company, we will lose too much knowledge to complete the project on time.*
2. *Poor communication between Custom Fit Coding, LLC and the client may lead to unforeseen outcomes for both parties*
3. *Brooks' Law: adding more people late in a project will make the project later*

Requirements Risks

1. *Not enough recipes to give the target audience enough variety to keep them hooked.*
2. *Not having proper nutrition information for menu components may cost the end user undue stress from an ineffective strategy.*

Estimation Risks

Minimizing Risks

Technology Risks

1. *Package the Java Runtime Environment with the program*
2. *Data integrity may compromise the effectiveness of the application*
3. *Have the application check the format of the data files to eliminate errors.*

People Risks

1. *Set and achieve attainable goals to ensure project success. Ensure all work is documented properly.*
2. *Work to build, strengthen and reinforce avenues of communication amongst all stakeholders to minimize miscommunication.*
3. *Do not add new people late in the project.*

Risks

1. *Begin collecting recipes early in the development process*
2. *Develop multiple avenues of gathering nutritional information*

Project Deliverables/Milestones

Milestones/Deliverables	Project Manager	Scheduled Start	Scheduled Finish
Planning/Description	David Ball	Feb. 3, 2011	Feb. 21, 2011
Analysis/Requirements	Ryan Spoon	Feb. 17, 2011	Mar. 21, 2011
Design/Prototype	Steve Totten	Mar. 3, 2011	Apr. 4, 2011
Implementation/Folder	Drew Salyer	Mar. 31, 2011	Apr. 27, 2011
Implementation/Presentation	Stephanie Kinsella		Apr. 28, 2011

Preliminary Schedule

Preliminary Budget

- **Planning (3 wks)**
 - 1 Manager: 30 hours * \$150 = \$4500
 - 4 Developers/Designers: 4 * 40 hours * \$90 = \$14400
- **Requirements (3 wks)**
 - 1 Manager: 30 hours * \$150 = \$4500
 - 4 Developers/Designers: 4 * 40 hours * \$90 = \$14400
- **Design (2 wks)**
 - 1 Manager: 30 hours * \$150 = \$4500
 - 4 Developers/Designers: 4 * 40 hours * \$90 = \$14400
- **Implementation (3 wks)**
 - 1 Manager: 30 hours * \$150 = \$4500
 - 4 Developers/Designers: 4 * 40 hours * \$90 = \$14400
- **Total (11 wks)**
 - **\$75,600**