Custom Fit Coding, LLC

"The leader in providing custom creative solutions for your business"

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Cooking to Goal

Software Project Management Plan

Prepared for	Custom Fit Coding &Carpe Aurum Venture Capital
Prepared by	David Ball Planning Phase Project Manager Custom Fit Coding
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Revision History

This table indicates the introduction of changes to the software project management plan as it changes throughout the project.

Version	Author(s)	Description/Changes	Completion Date
1	David Ball Stephanie Kinsella Drew Salyer Ryan Spoon Steven Totten	Initial draft version.	2/21/2011

Document Approval History

This document has been approved for its intended purpose by the following parties at each revision.

Approval Party	Version Approved	Signature	Date
David Ball	1	David Ball	2/21/2011
Ryan Spoon			
D. P. Daugherty			

Document Review History

As the project advances through its various project leaders, it may be officially reviewed by various members of the project.

Reviewer	Version Reviewed	Signature	Date

Contents

Introduction

This document is the project plan for the Cooking to Goal software development effort by Custom Fit Coding, LLC. This document attempts to comply as much as possible with the ANSI/IEEE 1058 Standard for Software Project Plans specification.

It is divided into several sections for ease of navigation and improved readability.

The company's mission statement is provided in **CompanyMission Statement**.

The **Project Vision Statement** section is a statement regarding the project's intended purpose.

The **Project Scope** section is devised as a means to provide constraints on the application and automation boundaries for the project.

When a functional/design prototype is devised and released, its success will be determined by the notes in **Project Prototype Success.**

A list of resources available to the project is outlined in the **Project Resources** section.

Every known party that has a stake in the success of the project, as a whole, is listed in the **Key Stakeholders** section.

The major risks, as foreseen, are indicated in the **Major Risks** section breakdown. The subsection **Minimizing Risks** attempts to work around the major project risks with some potential solutions.

The **Project Milestones and Client Deliverables** section lists the separate project phases, along with starting and ending dates, and each phase deliverable to the client.

The **Preliminary Project Schedule** is a detailed chart indicating the initial schedule for each phase and phase activity in order to achieve success of the project.

The **Preliminary Operational Budget** section indicates the allocation of funds for various activities throughout each phase.

Company Mission Statement

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 Vision Statement

Custom Fit Coding, LLC, will be designing and developing a meal planning and purchasing tool for Carpe Aurum Venture Capital customers. This tool should create a week's worth of menus to help customers meet their dietary goals as well as generate a shopping list containing items needed to prepare their meals. The program will have a setup screen to establish planning assumptions for each customer and will contain a recipe entry screen where customers 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 goals. A graphical view will also be provided so the user can determine how their selections affect their weekly goals. 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 dietary mistakes to a minimum by giving tips to guide users throughout the process without cluttering the application.

Project Scope

The Cooking to Goal application will have an easy to navigate graphical user interface (GUI). 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 customer establish their 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 meal choices which will be stored for future use. Once a weekly menu is fixed, the application's quantity calculator will adjust portion sizes to meet the customer's nutritional limits.

The application will also include a graphical view of how the choices are impact weekly goals and limits as a customer chooses 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, as a centralized database has been planned for a future application project at Carpe Aurum Venture Capital.

Outside of the scope of this project is useful dietary information. It is the responsibility of Carpe Aurum Venture Capital to provide whatever necessary dietary planning/information that the project will need in order to provide this functionality to their customers.

Carpe Aurum Venture Capital has made it clear that the company hasits own web site plans and will not need our services for web publishing.

The application boundary will consist of all of the analysis, design, and implementation of the GUI standalone application. The automation boundary will be all of the actual work we will be able to automate, which will be limited by the amount of information provided by our client, Carpe Aurum Venture Capital, and/or the greater Internet mass of health information regarding the health fitness requirements and/or specifications to which Custom Fit Coding will be held.

Project Prototype Success

The final Cooking to Goal application will be preceded by a prototype with a limited functionality set to gather feedback from the client and to understand the application's intended administration methods. This will ensure that Custom Fit Coding, LLC, shares the same, mutual goals as the client: 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 end user to a personalized *profile* page, which serves as the entry pointto the application. Such a page will display some basic information about the user, including any graphics to display progress towards some perceived goal. From there, the user may easily access the other program features, including menus, recipes, and shopping lists through some devised means. Advanced features will be implemented up to the final project release.

Project Resources

The following resources are available to the project, the team, and the company for conducting the work of the project.

Human Resources

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

Non-Human Resources

- Business Windows PCs
- Code Repository Hosting (very likely Github.com)
- Eclipse IDE &EGit based on JGit
- Google Docs Document Hosting
- Google Mail/Groups Forum Services
- Javadoc Documentation
- Microsoft Office 2010 Professional Plus
- Microsoft Office 2010 Visio
- Microsoft Office 2010 Project
- Third Party APIs and Code Libraries

Information Resources

- Product health information used to generate menu
- Internet

Key Stakeholders

This outline indicates everyone that has a stake in the success of this project.

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

There are a certain number of risks associated with a project such as the Cooking to Goal project. Outlined below are a certain number of expected risks assumed with the project.

Technology Risks

1. Java SE: While Java SE is platform-independent, users must have the Java Runtime Environment installed to run the program. The original Carpe Aurum Venture Capital memorandum indicates this as the required platform.
2. Cost of storing data on customer machine, including the data integrity risks.

People Risks

1. If too many of our programmers leave the company, we may lose too much knowledge to complete the project on time.
2. Poor communication between Custom Fit Coding, LLC, and Carpe Aurum Venture Capital may lead to unforeseen circumstances for either party or parties.
3. Brooks' Law: adding more employees later in the project will make the project even later.

Requirements Risks

1. Not enough recipes to give the target audience enough variety to keep using the service/product may compromise the project ecosystem.
2. Not having proper nutrition information for menu components may cost the end user undue stress from an ineffective strategy, or worse, land Carpe Aurum Venture Capital or Custom Fit Coding, LLC, in a legal battle.

Estimation Risks

1. If we estimate incorrectly in the planning, analysis, or design phases, the cost to implement the project on time may increase dramatically, either at the cost of the company or the client.

Minimizing Risks

In order to minimize the risks associated with this project, try implementing these strategies:

Technology Risks

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

People Risks

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

Requirements Risks

- Begin collecting recipes early in the development process
- Develop multiple avenues of gathering nutritional information

Estimation Risks

- Be sure to think through any type of time, cost, or otherwise valuable quantity before documenting it for the company and client.
- Ask the team for advice, suggestions, hints, or any other commentary.

Project Milestones and Client Deliverables

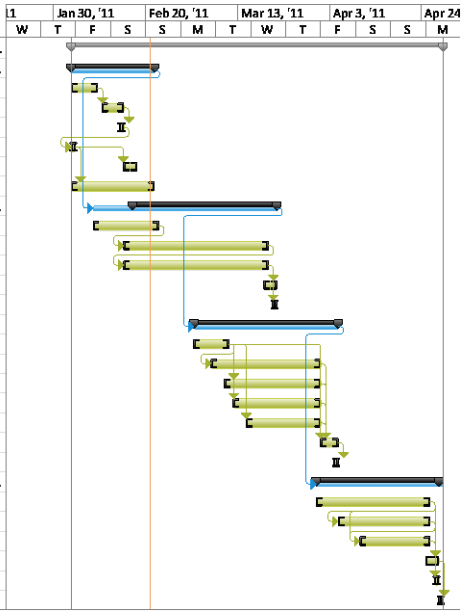
This table indicates the phases of the software development lifecycle and the appointed project managers for each phase, along with the major start and stop dates for each phase.

Project Phase	Client Deliverable	Project Manager	Scheduled Start	Scheduled End
Planning	Software Project Management Plan	David Ball	Feb. 3, 2011	Feb. 21, 2011
Analysis	Requirements Document	Ryan Spoon	Feb. 17, 2011	Mar. 21, 2011
Design	Functional/Design Prototype(s)	Steven Totten	Mar. 3, 2011	Apr. 4, 2011
Implementation	Complete Project Folder	Drew Salyer and Stephanie Kinsella	Mar. 31, 2011	Apr. 27, 2011
	Presentation			Apr. 28, 2011

Preliminary Project Schedule

The following Gantt diagram indicates detailed schedule for the project.

ID	Task Name	Duration	Start	Finish
0	**Cooking to Goal**	**61 days**	**Thu 2/3/11**	**Thu 4/28/11**
1	**1 Planning Phase**	**13 days**	**Thu 2/3/11**	**Mon 2/21/11**
2	1.1 Define the problem	4 days	Thu 2/3/11	Tue 2/8/11
3	1.2 Produce project schedule	3 days	Thu 2/10/11	Mon 2/14/11
4	1.3 Confirm project feasibility	1 day	Mon 2/14/11	Mon 2/14/11
5	1.4 Staff the project	1 day	Thu 2/3/11	Thu 2/3/11
6	1.5 Launch the project	3 days	Tue 2/15/11	Thu 2/17/11
7	1.6 Deliver project planning document to customer	13 days	Thu 2/3/11	Mon 2/21/11
8	**2 Analysis Phase**	**23 days**	**Thu 2/17/11**	**Mon 3/21/11**
9	2.1 Gather information	11 days	Tue 2/8/11	Tue 2/22/11
10	2.2 Define system requirements	25 days	Tue 2/15/11	Sat 3/19/11
11	2.3 Prioritize requirements	25 days	Tue 2/15/11	Sat 3/19/11
12	2.4 Review recommendations with management	2 days	Sat 3/19/11	Mon 3/21/11
13	2.5 Deliver requirements document to customer	1 day	Mon 3/21/11	Mon 3/21/11
14	**3 Design Phase**	**23 days**	**Thu 3/3/11**	**Mon 4/4/11**
15	3.1 Design application architecture (MVC, project setup, revision control etc.	6 days	Thu 3/3/11	Thu 3/10/11
16	3.2 Design the user interface (look and feel)	19 days	Mon 3/7/11	Thu 3/31/11
17	3.3 Design the system interfaces (application control)	16 days	Thu 3/10/11	Thu 3/31/11
18	3.4 Design and integrate the database (JDBC, etc.)	15 days	Sat 3/12/11	Thu 3/31/11
19	3.5 Design and integrate system controls (security, etc.)	13 days	Tue 3/15/11	Thu 3/31/11
20	3.6 Prototype, if needed, the system details	2 days	Fri 4/1/11	Mon 4/4/11
21	3.7 Deliver design document to customer	1 day	Mon 4/4/11	Mon 4/4/11
22	**4 Implementation Phase**	**20 days**	**Thu 3/31/11**	**Wed 4/27/11**
23	4.1 Construct software components	18 days	Thu 3/31/11	Mon 4/25/11
24	4.2 Verify and test	15 days	Tue 4/5/11	Mon 4/25/11
25	4.3 Train users and document the system	12 days	Sun 4/10/11	Mon 4/25/11
26	4.4 Project post-mortems	3 days	Mon 4/25/11	Wed 4/27/11
27	4.5 Deliver project folder to customer	1 day	Wed 4/27/11	Wed 4/27/11
28	4.6 Deliver project presentations, discuss post-mortem	1 day	Thu 4/28/11	Thu 4/28/11



Preliminary Operational Budget

Planning Phase

During the 13-day planning phase, we expect these human resources costs:

- 1 Project Manager: 1 ×7 days × 4 hours @ $150/hour = $4,200
- 4 Team Members: 4×13 days ×4 hours @ $75/hour = $15,600

Requirements Phase

During the 23-day analysis phase, we expect these human resources costs:

- 1 Project Manager: 1 × 15 days ×3 hours @ $150/hour = $6,750
- 4 Systems Analysts: 4 ×15days× 4 hours@ $75/hour = $18,000

Design Phase

During the 23-day analysis phase, we expect these human resources costs:

- 1 Project Manager: 1 × 15 days × 3 hours @ $150/hour = $6,750
- 4 Application Designers: 4 × 15 days × 4 hours @ $75/hour = $18,000

Implementation Phase

During the 20-day implementation phase, we expect these human resources costs:

- 1 Project Manager: 1 × 12 days ×3 hours @ $150/hour = $5,400
- 4 Application Developers: 4 ×15 days ×8 hours @ $30/hour = $14,400

ProjectSummary

During the 61-day project, we expect these cumulative human resources costs:

- 4 Project Managers: $23,100
- 16 Additional Staff Members: $66,000
- Project Total Cost: $89,100

Project Award

- Project Total Cost: $89,100
- Amount Awarded for Project: $100,000
- Maximum Bonus Provided: $0
- Estimated Custom Fit Coding, LLC, Profit: $10,900