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TaskMaster

Requirements Document

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Introduction

This document will cover the requirements and scope of the task management project, TaskMaster. TaskMaster is a simple task management program that will allow a wide range to manage their tasks. It will also describe the users and stakeholders as well as propose a schedule for each milestone and delieverable for the project.

Purpose and Scope

This document outlines all of the functional and non function requirements for the TaskMaster, a taks management application for individuals and groups needing to orginize various tasks. TaskMaster is designed to be useful and accessable to user both in and outside of the workplace.

Target Audience

The target audience for the task management project are individuals and groups that need a tool for organizing and maintaining various tasks. Because of the simplicity and usabilty of TaskMaster, it can be used by anyone owning a computer.

Terms and Definitions

Graphical User Interface - GUI

Product Overview

TaskMaster is a simple task management application that allows users to create and maintain their to do lists. TaskMaster is designed to be an easy to use and effective task manager that can be used by students and professionals. Because each user creates their own account, this application is easily used by individuals and groups alike. In the initial development, we will be focusing on individual accounts and task management, but will leave room for future development for sharing tasks with other users.

Users and Stakeholders

TaskMaster has a wide user base, as it can be used by anyone from students to CEOs looking to manage tasks. Our stakeholders are defined as anyone involved in the development process.

Professor Fei Xie and Bin Lin

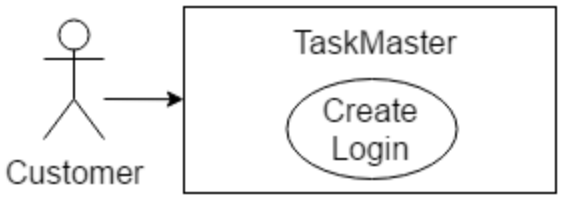
Professor Fei Xie and the CS 300 TA Bin Lin have taken the roll of the customer and have laid out the project requirements and deadlines for various components of the project.

Use cases

TaskMaster is designed to interact with one user at a time. Each user will be able to interact with TaskMaster to create login, create a task, edit a task, and delete a task.

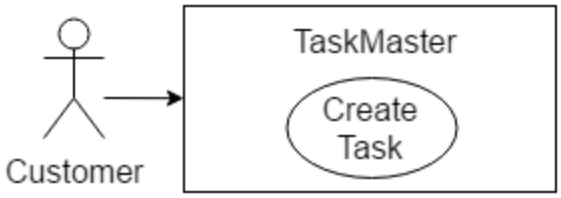
Login Creation

Initally, each user will interact with the software to create a new login so they can save and access their own tasks.



Task Creation

Once a user has created an account, they can create new tasks.



Edit Task

Users are able to edit existing task. This includes changing the task category, description, name, or date.

Delete Task

Users can delete existing tasks.

Functional Requirements

In this section we will define the various function requirements for the TaskMaster project. These are requirements that are required for the project to function succesfully. The key functional requirements for the TaskMaster are creation and use of multiple logins, three categories for organizing tasks (to-do, in progress, and done), creation of new tasks, movement of tasks between categories, and deletion of tasks all accessable to the user through a GUI.

Multiple User Logins

The TaskMaster program must allow a user to create a private login via a login name and password. This will allow each user to have access to only their task lists. When each user first uses TaskMaster they will be able to create their own username and password, and will enter those credentials when prompted to access their account when using the program.

Task Creation

Users will be able to create new tasks and give them a descriptive title. Users will then be able to delete the task or move it into a different task category.

Task Categories

Users can organize tasks by putting each task into one of three task categories: To Do, In Progress, and Done. Each task can only be in one category at a time. These will allow the user to better manage their progress with their required tasks.

To Do Task Category

When a user first creates a task, it will be in the To Do category by default. This section is for users to place tasks that need to be completed but have not yet been started.

In Progress Task Category

Users will be able to move tasks into the In Progress category from the To Do category when that task has been started. This will allow the user to clearly see what tasks are being worked on at any given time.

Done Task Category

When a user completes a task, they can move it into the Done category to show that there is no more work to do on that task. Users will also be able to delete tasks from the Done category.

Deletion of Tasks

Users will be able to delete any of the tasks they create regradless of which category they are in.

Graphical User Interface

Users will interact with the task management through a simple graphical user interface. This will include a login/sign up page and a page containing the various tasks. The task page will be seperated into three seperate lists that correspond to the task category. Users will have buttons for creation and deletion of tasks and moving tasks into various categories.

Tasks		
To Do	In Progress	Done
Task 1	Task 7	Task 13
Task 2	Task 8	Task 14
Task 3	Task 9	Task 15
Task 4	Task 10	Task 16
Task 5	Task 11	Task 17
Task 6	Task 12	Task 18

Nonfunctional Requirements

The TaskMaster has several nonfunctional requirements designed to inpmrove the usability and effectiveness of the program. These include the ability to edit a task and add descriptions and due dates to each task.

Editing a Task

After a task is created, a user will be able to alter various components of it as needed. This includes changing the task name, description, and due date. This will allow a user to alter details of a task when needed instead of having to delete an old task and create a new one when an edit is needed.

Task Description

Users will be able to add short descriptions to each task. This will allow a user to include any important information related to that task while keeping the task name easy to read. This will be optional.

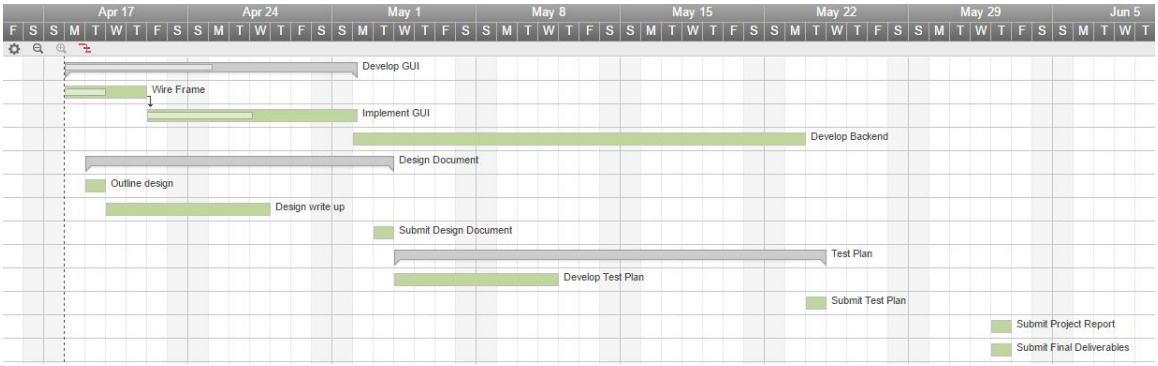
Due Dates

Users will have the option of adding due dates to each task. This is also optional.

Milestones and Deliverables

The software development of TastMaster will have two main phases, the front end phase and the backend phase. I will also be developing a design document, test plan, and project summary. Each of these components constitute as milestones, and my deliverables will be my design document, test plan, project summary, and finally the TaskMaster application itself. These deliverables will be submitted to the stakeholders.

	Task Name	Start Date	End Date	Duration
1	**Develop GUI**	**04/18/16**	**05/02/16**	**10.25d**
2	Wire Frame	04/18/16	04/21/16	4d
3	Implement GUI	04/22/16	05/02/16	6.25d
4	**Develop Backend**	**05/02/16**	**05/23/16**	**16d**
5	**Design Document**	**04/19/16**	**05/03/16**	**11d**
6	Outline design	04/19/16	04/19/16	1d
7	Design write up	04/20/16	04/27/16	6d
8	Submit Design Document	05/03/16	05/03/16	1d
9	**Test Plan**	**05/04/16**	**05/24/16**	**15d**
10	Develop Test Plan	05/04/16	05/11/16	6d
11	Submit Test Plan	05/24/16	05/24/16	1d
12	Submit Project Report	06/02/16	06/02/16	1d
13	Submit Final Deliverables	06/02/16	06/02/16	1d



GUI Design

GUI development will begin with the creation of wireframes for the sign up, log in, and task management pages. These will be used to design a simple user interface. After the wireframes are completed, the GUI will be developed using Java Swing.

Back End Design

For the TaskMaster, each users information will need to be stored. In order to this I will be working with a DBMS system. This will require some researching and learning so I can properly implement this component.

Design Document - May 3rd

Develop a design document that describes the application and each sunsystem in detail. Create dataflow diagrams and class diagrams for the application.

Test Plan - May 24th

The test plan document will describe the testing methods for the application as a whole and each individual unit.

Project Report- June 2nd

The project report will give an overview of the project, code, and tests performed. It will also include any special features that we develop time permitted.

Final Deliverables - June 2nd

The final deliverables will include the complete TaskMaster application, along with a short demonstration of the product with the stakeholders.