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CS 242 Final Project Proposal

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To: oberg2@illinois.edu

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Here's what we got from you:

EDIT RESPONSE

CS 242 Final Project Proposal

Your email address (oberga2@illinois.edu) was recorded when you submitted this form.

Collaboration

Are you working in a group? If so, list the emails in your group.

no

Abstract

Project Purpose *

What is the purpose of this project? What problems do you want to solve?

The purpose of this project is to make the process of packaging packages simpler, cheaper, and paperless for MechSE Shipping and Receiving.

Background/Motivation *

Why are you interested in doing this project? Have you worked on something similar before?

I currently work in the Shipping and Receiving office at the Mechanical

Engineering Building on campus. I asked my manager for a problem he has in the office that can be solved with technology, and he replied with the process to process packages. When a package arrives at the office, we must fill out a log book with the recipient's name, the date, the name of the shipping company, and the number of packages processed. To notify a recipient of their package arrival, we must email them. When a recipient picks up their package, they must sign. This takes a good amount of time to do, especially when a bunch of packages come in. Also, the office must buy log books fairly often, so the cost can add up. I haven't done anything like this before.

Technical Specifications

Platform *

i.e. Website, iOS App, Arduino hack

Android App

Programming Languages *

i.e. PHP, Python, Lisp

Java

Stylistic Conventions *

i.e. commenting, naming conventions, camelCase

Java Styling Conventions

SDK *

i.e. IntelliJ, Visual Studio

Android SDK

Tools/Interfaces *

i.e. Android phone, Bluetooth tag, Google Chrome

Android Emulator

Target Audience *

i.e. Botanists, iPhone users

Shipping and Receiving Offices, specifically MechSE Shipping & Receiving

Functional Specifications

Features *

Several bullet points of what kind of functionality your project will feature. What should the user be able to do?

- Process a package once it arrives and store that data
- Automated email notification for a processed package
- Allow people to sign and pick up their package
- Search for a package by recipient name, date, processing number, etc.

Scope of project *

What are some of the limitations of this product?

I only have experience working in the MechSE Shipping & Receiving office, so this app will be tailored to that. It might not be as useful for other shipping and receiving offices.

Timeline

If you are working with others, please write down timeline for the entire project, and mark the parts you will be doing.

Week 1 *

4.1.1. Work on User Interface

- create home page
- create processing page
- create sign out page
- create search page

Week 2 *

4.2.1. Work on data storage with SQLite

4.2.2. Work on processing page

- Name, Date, Firm, Number of Packages form
- Create a Package object with user data
- store Package object into database

Week 3 *

- 4.3.1. Work on signing for packages
- Search for a package based on name or package ID
 - Open up a page for package pick up
 - Have a field for the recipient to enter name, ID, and date
 - Update package info in stored data

Week 4 *

- 4.4.1. Work on search page
- Display 10 most recently processed packages
 - Search for packages based on name, date, or package ID
 - Can pull search through all packages in stored data

Future Enhancements *

What are some cool tweaks you'd want to make to your product after the core functionality is done?
Are you planning to work on it in the future?

I want to figure out how to automate email notifications. Also, I would like the MechSE Shipping and Receiving office to test it out. If there are improvements that can be made based on their feedback, I would do what I can. However, if this app isn't too successful, their current process works so they could revert to that.

Rubrics

You will plan all four weeks of rubrics in the following sections.

I want all 4 weeks of rubrics because in the past students often did not really think about their project unless I made them make rubric for 4 weeks. They tend to have some high level goal for later weeks, but when their projects advance to later weeks, the goals will translate to either too much / not enough work. By forcing you make rubrics for all 4 weeks I hope that you can distribute work more evenly across 4 weeks. Of course you can always modify your goal for next week.

Acknowledgment *

I understand that ...

- ☒ All modifications to rubrics must be submit one week before the due date.
- ☒ To complete a requiriement, I will write a non-trivial amount of code, so a requirement cannot be something like "Get familiar with ...", or "Set up ...".

Rubrics - Week 1

The rubric is similar to what you had in the past weeks. There're 2 parts of it.

The first part is the same old "Basic Preparation, Cleverness Code Submission, Decomposition, Documentation, Effort, Naming, Overall Design, Participation, Presentation", plus one for "Revised final project schedule if necessary". Therefore they're in your rubric in this week by default.

The second part consists of requirements specific to this project, and you need to fill them out. Each week, there will be 4 functional requirements and 1 test-related requirement. Each requirement has possible scoring of 0, 1, 2, and 2.5. A functional requirement will require you to write a reasonable amount of code.

Some *invalid* requirements includes:

"Get familiar with ..."

"Set up ..."

"Figure out how to ..."

"Install ..."

Requirement 1

Brief description

Briefly describe what you need to do for this requirement.

home page

2.5 Points Criteria *

List of verifiable details to qualify 2.5 points for this requirement.

create a beautiful home page that flows nicely

2 Points Criteria *

List of verifiable details to qualify 2 points for this requirement.

create a home page

1 Point Criteria *

List verifiable details to qualify 1 point for this requirement.

n/a

0 Point Criteria

List verifiable details to qualify 0 point for this requirement.

Requirement 2

Brief discription

Brief discribe what you need to do for this requirement.

processing page

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requirement.

create a beautiful processing page that flows nicely

2 Points Creteria *

List of verifiable details to qualify 2 points for this requirement.

create a processing page

1 Point Creteria *

List verifiable details to qualify 1 point for this requirement.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requirement.

Requirement 3

Brief discription

Brief discribe what you need to do for this requirement.

sign out page

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

create a beautiful sign out page that flows nicely

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

create a sign out page

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 4

Brief discription

Brief discribe what you need to do for this requirement.

search page

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

create a beautiful search page that flows nicely

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

create a search page

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 5

This one should always be test related, with an optional manual test plan.

Note: Manual test plane only will only give you 1 point.

Brief discription

Brief discribe what you need to do for this requirement.

manual test plan

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

n/a

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

have manual test plan

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Rubrics - Week 2

A requirement will require you to write a reasonable amount of code.

Some *invalid* requirements includes:

"Get familiar with ..."

"Set up ..."

"Figure out how to ..."

"Install ..."

Requirement 1

Brief description

Brief describe what you need to do for this requirement.

database

2.5 Points Criteria *

List of verifiable details to qualify 2.5 points for this requirement.

n/a

2 Points Criteria *

List of verifiable details to qualify 2 points for this requirement.

implement a database using sqlite

1 Point Criteria *

List verifiable details to qualify 1 point for this requirement.

n/a

0 Point Criteria

List verifiable details to qualify 0 point for this requirement.

Requirement 2

Brief discription

Brief discribe what you need to do for this requirement.

package processing form

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

n/a

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriement.

create the form for package processing

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriement.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriement.

Requirement 3

Brief discription

Brief discribe what you need to do for this requirement.

grab data from form

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

n/a

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

grab data from form and store into Package object

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 4

Brief discription

Brief discribe what you need to do for this requirement.

store info into stored data

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

n/a

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

store Package data into database

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 5

This one should always be test related, with an optional manual test plan.
Note: Manual test plane only will only give you 1 point.

Brief discription

Brief discribe what you need to do for this requirement.

testing

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

test all functions

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

test some functions

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Rubrics - Week 3

A requirement will require you to write a reasonable amount of code.

Some *invalid* requirements includes:

"Get familiar with ..."

"Set up ..."

"Figure out how to ..."

"Install ..."

Requirement 1

Brief description

Brief describe what you need to do for this requirement.

locate package

2.5 Points Criteria *

List of verifiable details to qualify 2.5 points for this requirement.

n/a

2 Points Criteria *

List of verifiable details to qualify 2 points for this requirement.

search for a package based on name or package ID

1 Point Criteria *

List verifiable details to qualify 1 point for this requirement.

n/a

0 Point Criteria

List verifiable details to qualify 0 point for this requirement.

Requirement 2

Brief discription

Brief discribe what you need to do for this requirement.

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriement.

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriement.

0 Point Creteria

List verifiable details to qualify 0 point for this requiriement.

Requirement 3

Brief discription

Brief discribe what you need to do for this requirement.

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriement.

be able to pull information from user input in form

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriement.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriement.

Requirement 4

Brief discription

Brief discribe what you need to do for this requirement.

update

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

n/a

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriement.

update data in stored data

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriement.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiement.

Requirement 5

This one should always be test related, with an optionial manual test plan.

Note: Manual test plane only will only give you 1 point.

Brief discription

Brief discribe what you need to do for this requirement.

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiement.

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiement.

1 Point Creteria *

List verifiable details to qualify 1 point for this requiement.

0 Point Creteria

List verifiable details to qualify 0 point for this requiement.

Rubircs - Final Week

A requiement will require you to write a reasonable amount of code.

Some *invalid* requiements includes:

"Get familar with ..."
"Set up ..."
"Firgure out how to ..."
"Install ..."

Requirement 1

Brief discription

Brief discribe what you need to do for this requirement.

list recent packages

2.5 Point Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

list 10 most recent packages on page

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriement.

list packages on page

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriement.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriement.

Requirement 2

Brief discription

Brief discribe what you need to do for this requirement.

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

2 Point Creteria *

List of verifiable details to qualify 2 points for this requiriment.

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

0 Points Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 3

Brief discription

Brief discribe what you need to do for this requirement.

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

show package page of current package that displays info

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 4

Brief discription

Brief discribe what you need to do for this requirement.

refactoring

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriment.

n/a

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriment.

code has been refactored so it can't be refactored further

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriment.

n/a

0 Point Creteria

List verifiable details to qualify 0 point for this requiriment.

Requirement 5

This one should always be test related, with an optional manual test plan.

Note: Manual test plane only will only give you 1 point.

Brief discription

Brief discribe what you need to do for this requirement.

2.5 Points Creteria *

List of verifiable details to qualify 2.5 points for this requiriement.

2 Points Creteria *

List of verifiable details to qualify 2 points for this requiriement.

1 Point Creteria *

List verifiable details to qualify 1 point for this requiriement.

0 Point Creteria

List verifiable details to qualify 0 point for this requiriement.

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