Code Inspection Report

MyStudyGroupPlanner

Version 1.1

Client

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4/12/2016

MyStudyGroupPlanner
Code Inspection Report

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1. Changes in this Document

Appendices A and B have been added. All sections of this document have been added to.

2. Introduction

2.1. Purpose of This Document

The purpose of this document is to describe our coding and commenting conventions, provide a list of possible defects in the code , summarize our code inspection process, and document our code inspection meetings. This document is intended for readers who would like to understand the code inspection process during the development of the MyStudyGroupPlanner application.

2.2. References

1. MyStudyGroupPlanner System Requirements Specification Document
2. MyStudyGroupPlanner System Design Document
3. https://www.python.org/dev/peps/pep-0008/
4. https://mariadb.com/kb/en/sql-99/naming-rules/
5. https://mariadb.com/kb/en/mariadb/comment-syntax/

2.3. Coding and Commenting Conventions

Class names will begin with an uppercase letter, with camel case for each subsequent word in the class name. Variable names will begin with a lowercase letter, with camel case for each subsequent word in the variable name. With regards to commenting and spacing practices, we will follow the generally accepted standards outlined in the references above.

2.4. Defect Checklist

Category	Defect
Coding Conventions	Failing to use meaningful variable names
Coding Conventions	Failing to use meaningful class names
Coding Conventions	Failing to use meaningful function names
Coding Conventions	Indenting the code inconsistently
Coding Conventions	Hardcoding numbers in the code, instead of using constants

Logic Errors	Failing to reset the value of a variable at the end of a function
Logic Errors	Using a variable before initializing it
Logic Errors	Using an assignment operator (=) instead of a comparison operator (==)
Logic Errors	Incorrect parenthesizing of mathematical operations
Logic Errors	Accessing an invalid index of an array
Security Oversights	Logging into a user's account from another source, when the user is already logged in
Security Oversights	Failing to catch and display errors in input to the user
Commenting	Failing to uncomment a commented piece of code
Commenting	Failing to comment out a piece of code
Commenting	Comments are either too concise or too wordy

3. Code Inspection Process

3.1. Description

Specific coding tasks for this application were assigned to individual members of the development team. So, each developer inspected his/her own code while writing and testing it. Since some of the code, such as the code for creating tabs and modal popups, were the same for all web pages in the application, the other members of the team would inspect the code on GitHub before incorporating the features into his/her assigned part of the application.

3.2. Impressions of the Process

Most of the code inspection process was done independently through an online basis. Generally, a member of the development team would inspect another member's code independently on his/her own computer, and would correspond through email if there were any questions regarding the code. However, at the beginning of the development process, we went through different pieces of code as a team, in order to become familiar with our technology stack and make sure that each member understood what

code needs to be written for the application and how to do so. This method of code inspection worked well for all of us, so we will continue inspecting our code in this way for the next spiral.

3.3. Inspection Meetings

Date	Location	Start Time	End Time	Attendance	Roles	Code Units Reviewed
4/4/16	Library	6:00pm	8:00pm	All	Develop	home html/js Django
4/7/16	Library	7:00pm	9:00pm	All	Develop	groupMember html/js adminHome html/js Django - database, models, views
4/11/16	Library	6:00pm	8:30pm	All	Develop	Modal html/js Django REST Calendar Module
4/12/16	Library	6:45pm	9:00pm	All	Develop	Django REST Chat module
4/13/16	Library	6:00pm	10:00pm	All	Develop CSS Styling	Django REST Homepage html/CSS Chat module
4/14/16	Library	4:00pm	5:15pm	All	Develop	Django - reports models, views

4. Modules Inspected

4.1. All Modules

#	Module Name	Description	Completeness
1	authentication/model.py	A class abstraction layer that includes fields of an account	Complete
2	authentication/permission.py	A class to verify the permission level of the user	Complete

3	authentication/serializers.py	A serializer class to translate the authentication models to Json object	Complete
4	authentication/views.py	A controller to take web requests and respond to requests for authentication	Complete
5	building/model.py	A class abstraction layer that includes fields of a building	Complete
6	building/serializer.py	A serializer class to translate the building model to Json object	Complete
7	building/views.py	A controller to take web requests and respond to requests for building models	Complete
8	group/model.py	A class abstraction layer that includes fields of a group	In progress
9	group/serializers.py	A serializer class to translate the group models to Json object	In progress
10	group/views.py	A controller to take web requests and respond to requests for group models	In progress
11	meeting/model.py	A class abstraction layer that includes fields of a meeting	In progress
12	meeting/serializers.py	A serializer class to translate the meeting models to Json object	In progress
13	meeting/views.py	A controller to take web requests and respond to requests for meeting models	In progress
14	report/model.py	A class abstraction layer that includes fields of a report	In progress
15	report/serializers.py	A serializer class to translate the report models to Json object	In progress

16	report/view.py	A controller to take web requests and respond to requests for report models	In progress
17	static/javascripts/adminHome.js	A angularJS controller for the admin page	In progress
18	static/javascripts/groupCreator.js	A angularJS controller for the group creator page	In progress
19	static/javascripts/groupMember.js	A angularJS controller for the group member page	In progress
20	static/javascripts/home.js	A angularJs controller for the home page	In progress
21	static/templates/admindHome.html	Template for the admin home page	In progress
22	static/templates/groupCreator.html	Template for the group creator page	In progress
23	static/templates/home.html	Template for the home page	In progress
24	static/templates/authentication/login.html	Template for log in	In progress
25	static/templates/authentication/register.html	Template for registering an account	In progress
26	static/stylesheets/style.css	Stylesheets for all the pages	In progress

5. Defects

The following table reviews the defects found in our system

Defect	**File Location**	**Description**	**Fixed**
Coding Convention Error: Variable naming is not consistent	models.py	Camelcase and underscore are both used. Lack of consistency	No
Commenting Error: Previous code are commented instead of being removed	static/javascripts/adminHome.js	Previous codes are commented out instead of being removed	No

Appendix A - Agreement Between Customer and Contractor

The customer and the development team agree that the MyStudyGroupPlanner application has undergone thorough code inspection and abides to the coding standards outlined in this Code Inspection Report.

In the case that there are any future changes to the requirements outlined in this document, the development team will make these changes and provide the customer with updated hardcopy and softcopy versions to be read, approved, and signed.

Customer Comments:

Customer Signature

_____ _____

Print Name Date

_____

Signature

Development Team Signatures

_____	_____
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Appendix B - Team Review Sign-off

All members of the MyStudyGroupPlanner development team have reviewed this document and agree on its content and format. Any disagreements about this document are documented below.

Development Team Signatures

_____ _____

Print Name Date

_____

Signature

Comments:

_____ _____

Print Name Date

_____

Signature

Comments:

_____ _____

Print Name Date

_____

Signature

Comments:

Print Name

Date

Signature

Comments:

Print Name

Date

Signature

Comments:

Appendix C – Document Contributions

- **Tyler Campbell**
  - **None**
- **Aparna Kaliappan**
  - **Section 2: Introduction**
  - **Sections 3.1 and 3.2**
  - **Appendices A and B**
- **Ying Zhang**
  - **None**
- **Siqi Lin**
  - **Modules Inspection**
    - **All Modules**
    - **Defects**
- **Sean Murren**
  - **Inspection Meeting**