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**Basement Dwellers**

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**KAPP Application  
Use-Case-Realization Specification**

**Version 1.0**

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Use-Case-Realization Specification	Issue Date: <10/23/2022>
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## Revision History

Date	Version	Description	Author
<10/23/2022>	<1.0>	<Major Revisions> We completely changed our design and the template we used to fit more in-line with other projects.	<Troy, Tanner, Adam, Chris, Thomas>
<10/25/2022>	<1.1>	<Continuing Revisions> Began transferring out project to Github, which we decided would allow us to collaborate easier. We are also continuing to make improvements to our design documents.	<Troy, Tanner, Adam, Chris, Thomas>

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# Use-Case-Realization Specification

## 1. Introduction

### 1.1 Purpose

This document provides a complex overview of the system, using multiple diagrams to represent different components of the system.

### 1.2 Scope

KAPP allows students to be able to access an interface with multiple different features relating to the university. KAPP will focus on providing an interactive map for students to view on campus events. This Use-Case-Realization Specification will provide an overview of the use cases developed in the KAPP system.

### 1.3 Definitions, Acronyms, and Abbreviations

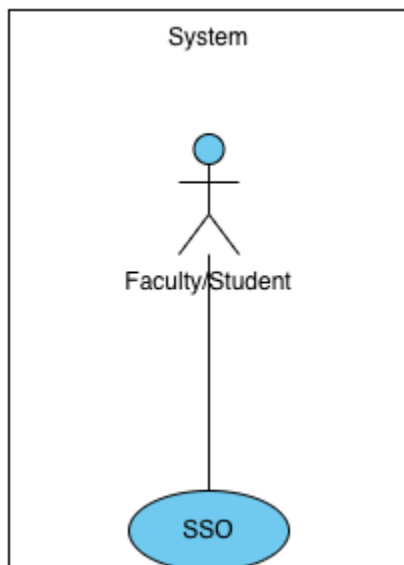
See Software Architecture Document

### 1.4 References

### 1.5 Overview

The rest of this document gives a general overview of the specific use cases of KAPP, its software system, and the use cases.

## 2. <Single Sign On>



### 2.1 Flow of Events - Design

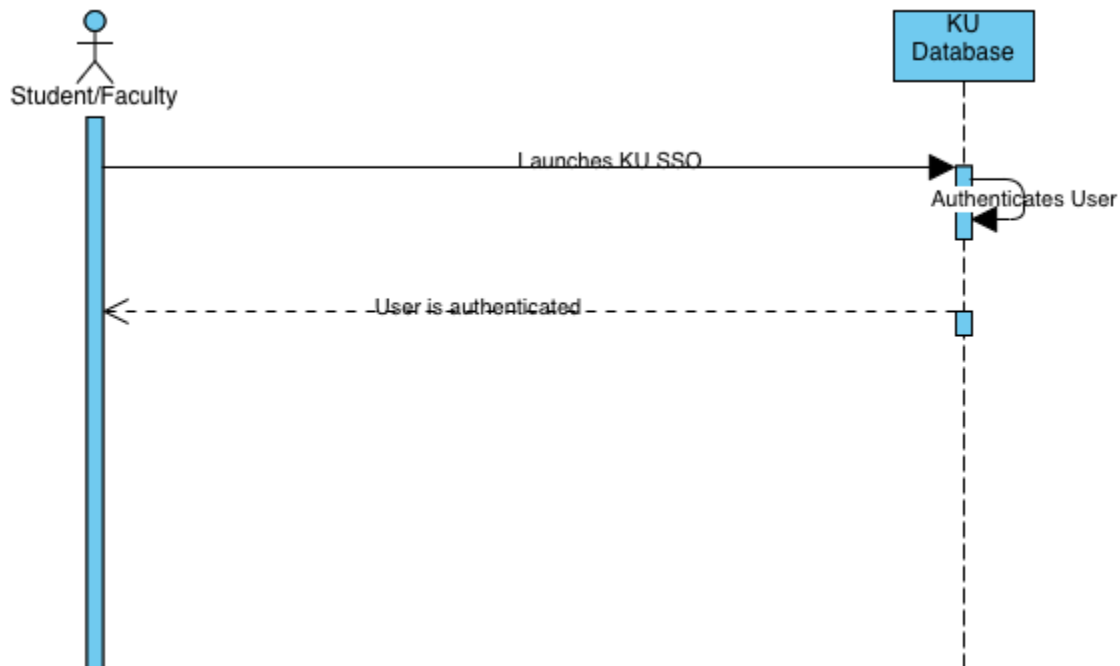
When requesting to log into KAPP a request is sent to the KU database in order to be verified to be logged in.

### 2.2 Interaction Diagrams

- The Faculty or Student launches the Single Sign On (SSO)
- The application received the request and redirects to the KU database

#### 2.2.1 Sequence Diagrams

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### 2.2.2 Collaboration Diagrams

2.2.2.1 Not needed at the moment.

## 2.3 Class Diagrams

See Software Architecture Document

## 3. <User>

### 3.1 Flow of Events - Design

*After verification from single-sign on, the user object will populate with its respective attributes.*

#### 3.1.1 Sequence Diagrams

#### 3.1.2 Collaboration Diagrams

3.1.2.1 Not needed at the moment.

### 3.2 Class Diagrams

See Software Architecture Document

### 3.3 Derived Requirements

Not needed at this time.

### 3.4 Class Diagrams

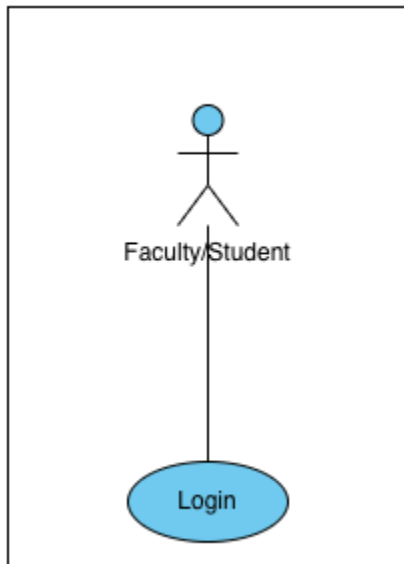
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### 3.5 Derived Requirements

Not needed at this time

## 4. <Login>

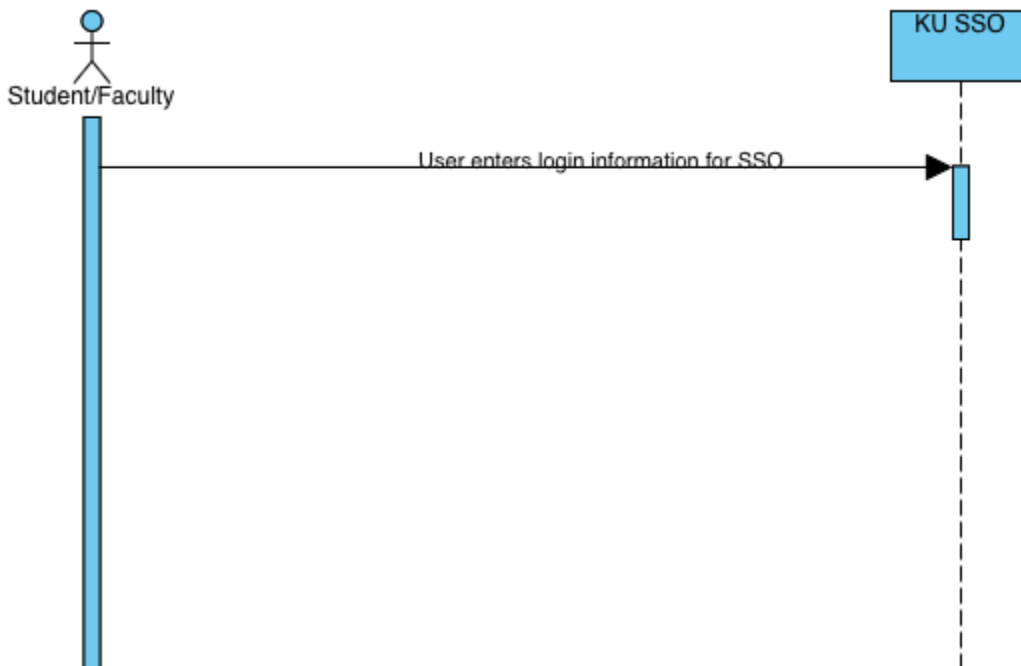


### 4.1 Flow of Events - Design

*This section will be displayed whenever a user is not logged into their account. It will prompt the user to enter their login details and then hand this data off to the single sign on.*

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#### 4.1.1 Sequence Diagrams



#### 4.1.2 Collaboration Diagrams

4.1.2.1 Not needed at the moment.

#### 4.2 Class Diagrams

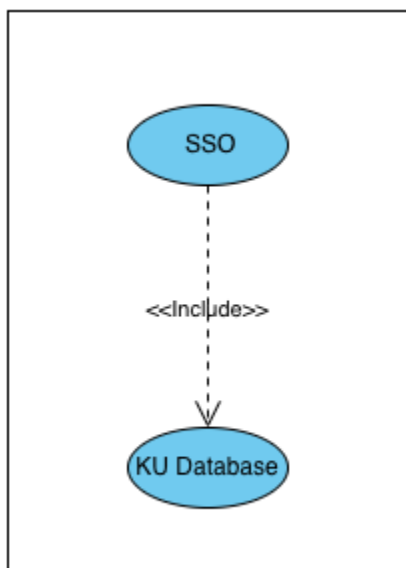
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#### 4.3 Derived Requirements

Not needed at this time

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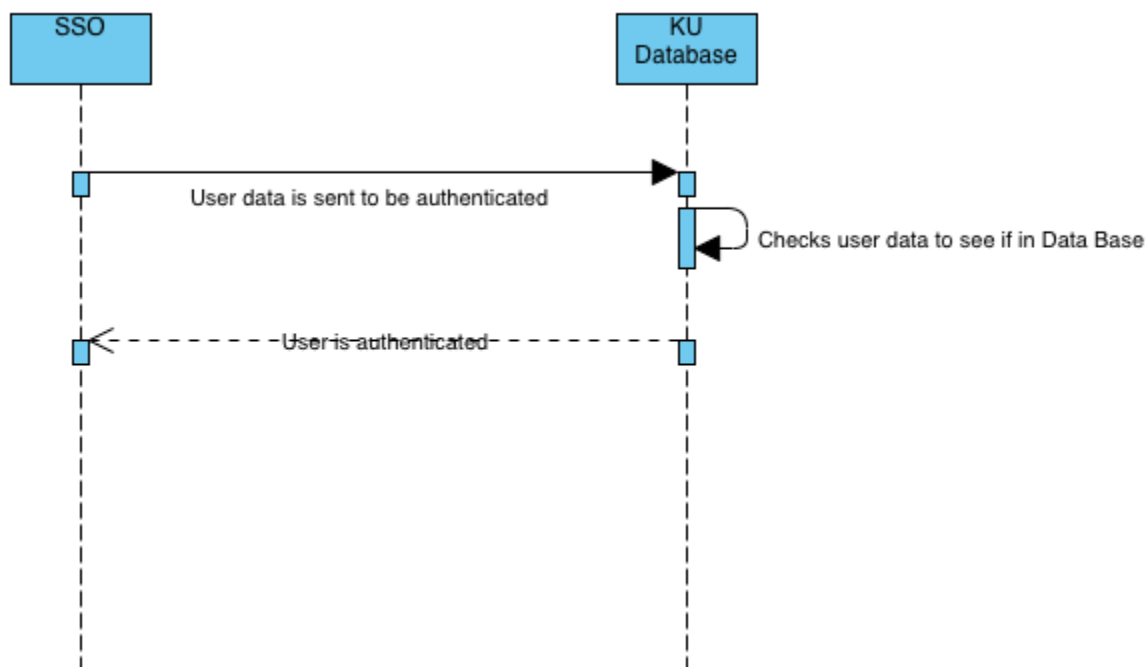
## 5. <KU Database>



### 5.1 Flow of Events - Design

*This is an integration into KU's database of all their users. It is funneled through the single sign on.*

#### 5.1.1 Sequence Diagrams





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### 5.1.2 Collaboration Diagrams

5.1.2.1 Not needed at the moment.

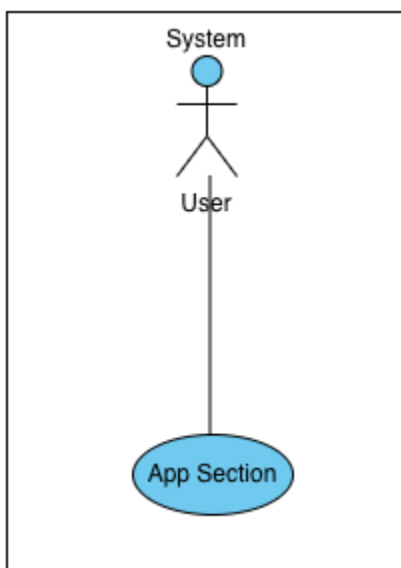
## 5.2 Class Diagrams

See Software Architecture Document

## 5.3 Derived Requirements

Not needed at this time.

## 6. <App Section>

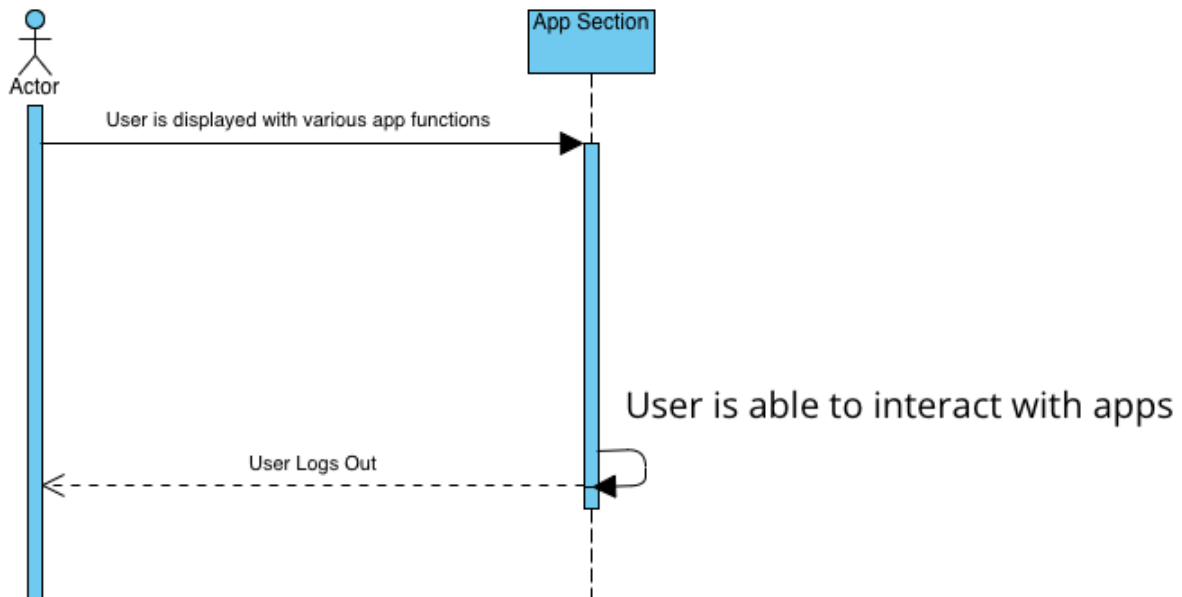


### 6.1 Flow of Events - Design

*This is the general app container. It is the executive object that all the rest run inside of.*

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### 6.1.1 Sequence Diagrams



### 6.1.2 Collaboration Diagrams

6.1.2.1 Not needed at the moment.

## 6.2 Class Diagrams

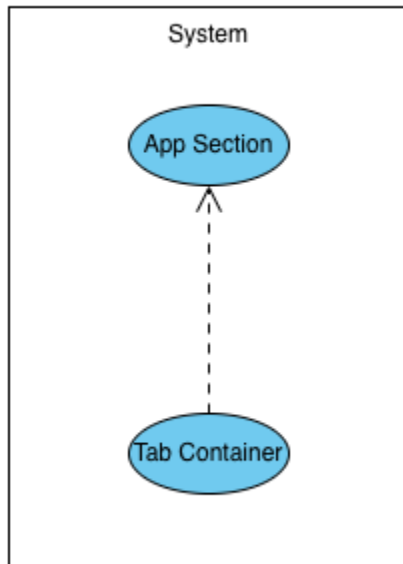
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## 6.3 Derived Requirements

Not needed at this time.

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## 7. <Tab Container>

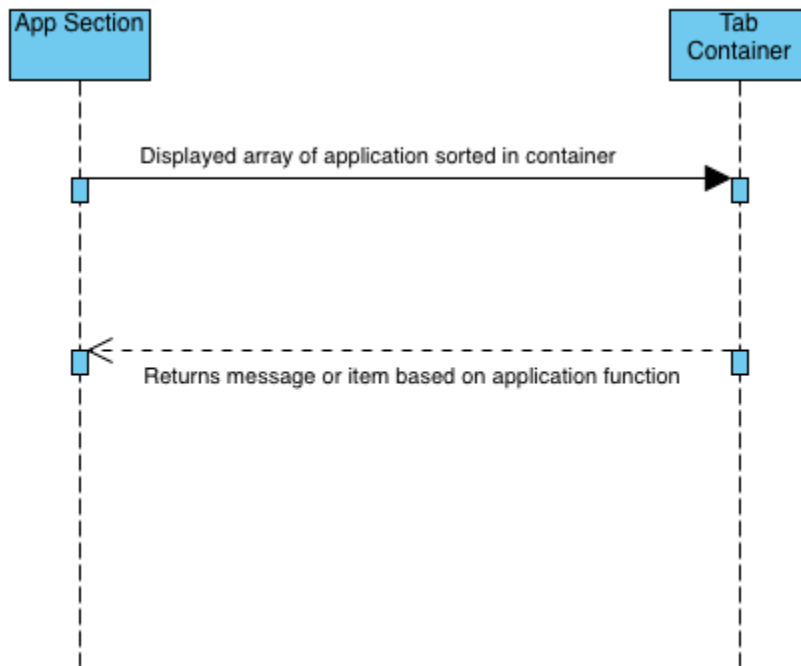


### 7.1 Flow of Events - Design

*Tab container is the footer region of the app display that holds buttons, or tabs, for each page.*

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### 7.1.1 Sequence Diagrams



### 7.1.2 Collaboration Diagrams

7.1.2.1 Not needed at the moment.

## 7.2 Class Diagrams

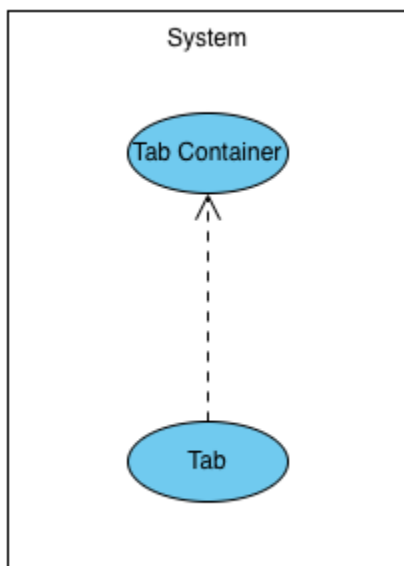
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## 7.3 Derived Requirements

Not needed at this time.

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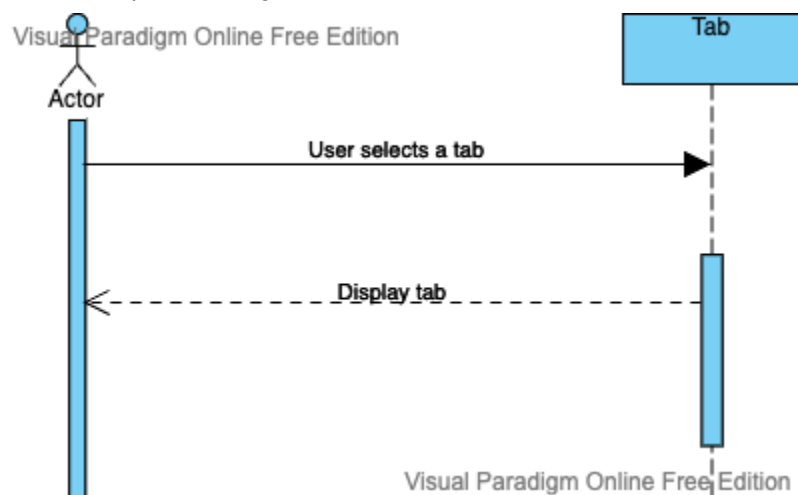
## 8. <Tab>



### 8.1 Flow of Events - Design

*A tab is a page of our application. They are accessed via the tab container at the footing of the app display, and are where most functions of the app are performed.*

#### 8.1.1 Sequence Diagrams



#### 8.1.2 Collaboration Diagrams

8.1.2.1 Not needed at the moment.

## 8.2 Class Diagrams

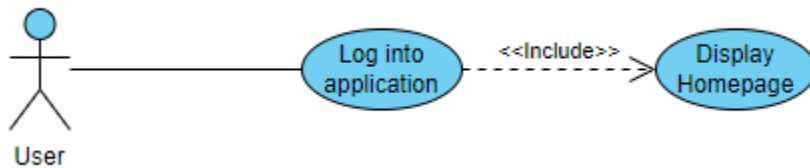
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### 8.3 Derived Requirements

Not needed at this time.

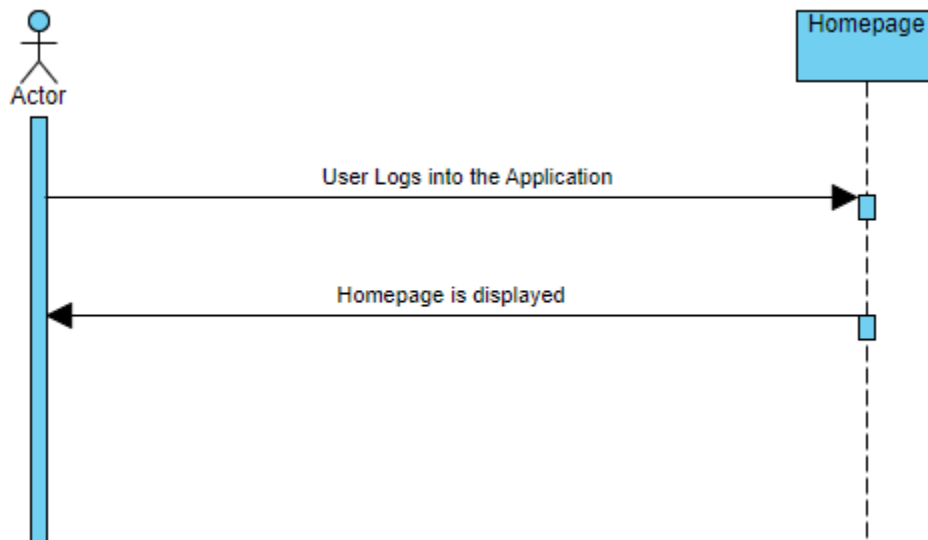
## 9. <Homepage>



### 9.1 Flow of Events - Design

*Once the user logs into the application, the homepage is displayed.*

#### 9.1.1 Sequence Diagrams



#### 9.1.2 Collaboration Diagrams

9.1.2.1 Not needed at the moment.

### 9.2 Class Diagrams

See Software Architecture Document

### 9.3 Derived Requirements

Not needed at this time.