

Knights Assistant Planner

## Concept of Operations

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### Modification History

Ver.	Date	Who	Comment
0.0	9/17/2015	Zubir Husein	Initial Draft

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## The Current System

The design and implementation of an all-in-one web application intended for mobile use that will provide users a single integrated interface for common scheduling and social tasks.

## The Proposed System: Needs

- Host server capable of handling at least 10 users simultaneously
- Robust and intuitive interface
- Google Maps access
- Health and fitness assistant
- News and local events feed
- Social media integration
- Calendar
- Skills and framework

## The Proposed System: Users and Modes of Operation

The system will feature a calendar, map, health assistant, news and local events feed, and social media integration and is intended for people (primarily students) on the go. The user should be able to access and switch between these quickly and easily and there should be significant integration between the different components. For example, the fitness assistant should be able to show you healthy restaurants and parks on the map and the events page should be able to display directions. The user will also be able to customize the “home screen” to display the information most relevant to them.

### The Proposed System: Operational Scenarios

- Typical – User opens application and is greeted with their homepage. They see that they have a few notifications and unread messages on their social media accounts and that there is an event happening nearby in a few hours. They check their messages and calendar and look up how to get to the event, all within the same program.
- Gym-goer – Makes extensive use of the fitness app and calendar to plan out their diet and workout routines.
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### The Proposed System: Operational Features

#### Must Have:

- Fitness assistant
- Calendar
- Sharing of calendars/schedules
- News and events feed
- Map
- Some social media integration

#### Would Like To Have:

- Generic integration of other applications the user utilizes often

### The Proposed System: Expected Impacts

The application is useful to its users. It should provide users with a significant benefit over using the aforementioned functionality as separate programs. For the development team, the expected impact is gaining experience building and deploying a web application for use by the general public.

## The Proposed System: Analysis

### Expected Improvements:

- Added functionality beyond the aforementioned base features

### Disadvantages:

- Another service for people to use
- Each feature on its own will probably be less powerful than the dedicated applications they're intended to replace

### Limitations:

- APIs: social media such as Facebook and Twitter API's and Google Maps limit what you can do with those services
- Security: we will be dealing with information that needs to be kept private

### Risks:

- Private information that needs to be kept secure
- Time and ability of group members

### Alternatives and Tradeoffs:

- Simply using separate dedicated applications to achieve the same outcome