

# Vision Document for MUM Life

## TEAM MEMBERS

JONATHAN TUTA - 610 543

YADIR HERNANDEZ - 610 545

## Contents

1. Introduction .....	1
2. Positioning.....	2
2.1 Problem Statement.....	2
2.2 Product Position Statement .....	2
3. Stakeholder Descriptions .....	4
3.1 Stakeholder Summary.....	4
3.2 User Environment.....	4
4. Product Overview .....	6
4.1 Product Perspective .....	6
4.2 Assumptions and Dependencies.....	6
4.3 Needs and Features .....	6
4.4 Alternatives and Competition .....	9
5. Other Product Requirements .....	10

# 1. Introduction

Currently, Maharishi University of Management (MUM) has a mobile application that enables the staff and students to exchange information in a category manner. The categories incorporated into the system are: Student Feed, Buy & Sell, Lost + Found, Housing, News, Ride-Sharing and Student Government. Even though the existing categories are enough for the most part, there are two more functionalities that require a section of their own for students and staff that require more functionality out of their application. The functionalities we're talking about are Events and Rent.

Events organized at this time are promoted using one of the previously mentioned channels, mainly Student Feed, which quickly gets lost in the clutter and/or through email, which is also another inconvenient method to spread the message. Having a system whereby all the event information along with all the RSVPs in one place could make a huge impact on both the convenience factor and organization and preparation on the host side.

Another aspect of student life not included is, the bike and kayak rentals from the Recreation Center. Students are forced to make trips to the Recreation Center without having any information in advance about both the condition or availability of these items. Sometimes these trips could end up being unfruitful and / or involve manual checking on the lender's side (Recreation Center Representative).

Hence, MUM Life is a new software designed to incorporate these two missing functionalities from the main MUM Community application in an intuitive and simple manner.

## 2. Positioning

### 2.1 Problem Statement

The problem of	<ul style="list-style-type: none"><li>● managing and getting information about events.</li><li>● managing and renting items from the Recreation Center.</li></ul>
Affects	organizers, recreation center staff and students.
The impact of which is	<ul style="list-style-type: none"><li>● information distribution being dispersed across multiple platforms (Facebook, MUM Community application, and email) which causes misinterpretation and inconvenience.</li><li>● renting an item from the Recreation Center is mandatory to show up in person to the office and check the availability of items. Since there's no means to check that information from distance (other than a phone call) as well as the conditions of the items, students end up making fruitless trips.</li></ul>
A successful solution would be	a tool that enables organizers and students to communicate and share information about events and accept feedback on them. It will allow students and recreation center staff to keep track of the status of the item (Availability, Condition) and to eventually rent the item. This tool will provide a Database and a cross-platform user interface that is easy to use for both the organizers and students.

### 2.2 Product Position Statement

For	Students and Staff
Who	want to attend/organize events and rent/manage items
The (product name)	MUM Life
That	automation and simplicity

Unlike	Manual and/or dispersed services
Our product	Centralizes MUM life activities between staff and students in a simple and convenient manner.

### 3. Stakeholder Descriptions

#### 3.1 Stakeholder Summary

Name	Description	Responsibilities
Students	Students can see event post and rental information on MUM Life and RSVP to an event or rent an item.	Students are responsible for RSVPing to an event they want to attend and rent items they want.
Organizers	Organizers can create and modify events.	Organizers are responsible for creating and updating events.
Lenders	Lenders can post information about items that are up for renting and make modifications to those posts.	Lenders are responsible for keeping the information about renting items up to date.
Admins	Admins can perform management tasks on the very different users present in the system.	Admins are responsible for managing users in the system.
Developers	Developers convert the design of the system into working software.	Developers are responsible for developing a system based on the designs provided to them.
Testers	Testers design and implement Unit and Integration tests for functionalities of the system.	Testers are responsible for providing at least 70% of test coverage on the whole system.

#### 3.2 User Environment

In the Event management sub-system, an event organizer will create an event and publish information about the event on the system. Students will then be able to see and RSVP to the events they're interested in. The event information will be available on the system until it's ends date and time.

In the Rent management sub-system, an item up for rent is published to the system by a Recreation Center Representative as an available item. A student will then be able to view the item listings and their corresponding information and can rent that item right on the system, making it invisible to other students on the system. The student will then be able to pick up the rented item from the Recreation Center without the need for any registration or extra hustle. Once the student returns said item, it'll again be available on the system.

## 4. Product Overview

### 4.1 Product Perspective

The MUM Life system is self-contained in the aspect whereby it can be converted to any other event management platform or rental service platform.

### 4.2 Assumptions and Dependencies

MUM Life system assumes that all the participants of the system are connected to the internet. Any connection problems present during the execution of any of the various functionalities of the system will result in an unsuccessful operation.

The system will also assume the user has access to a web browser, for web usage, or the mobile application installed in order to provide the services.

### 4.3 Needs and Features

No	Problem	Need	Priority	Features	Planned Release
<b>Student</b>					
1	Students can log in to the system with their credentials.	Students should be able to see the available events and items (Bike or Kayak)		Students can login using their mum.edu email.	
2	Students select the event they want.	Students may select events based on their interests.		Students can see event details information. Students can RSVP to an event.	
3	Students can check the availability of the items to rent.	Students will see available items (Bike, Kayak) before renting it.		Students can select the type of item they want to rent. Students can see all the available items of the specified category. Students can select	



				only one item from the available.	
4	Students can rate the items they borrowed.	Students can post comments and rate the item they borrowed to let others know about the item's condition.		Students can leave a comment and a rating based on the item's condition.	
5	Students can rent items (Bike, Kayak).	Students may reserve an item based on its availability.		Students can reserve only one item per category and must return the item in a specific amount of time. The reservation has a deadline, if not claimed in time, the item will be available to others.	
6	Students can be reminded on returning an item.	Students need to be reminded when the due time is approaching to avoid charges that may occur.		Reminders are automatic.	
<b>Organizer</b>					
7	Organizers can log into the system with their credentials	Organizers should be able to edit their own events.		Organizers can login using their mum.edu email.	
8	Organizers can manage events	Organizers can create, modify and cancel events.		Organizers can define the event by category.	
9	Organizers can see a list of event attendees.	Organizers need the list in case they need it for		Organizers have access to RSVP information.	

		managing resources based on attendees' count.			
<b>Lenders</b>					
10	Lenders can log into the system with their credentials.	Lenders need to see the status of all items in inventory.		Lenders can see all unreturned items. Lenders can apply a fee for late returned items.	
11	Lenders can manage items.	Lenders need to provide comprehensive information about items.		Lenders can add new items. Lenders can add pictures of the items along with their descriptions. Lenders can modify the item's information.	
12	Lenders can change the status of the items.	Lenders need to update the status of the item in case of maintenance and unavailability so it's not visible to renters.		Lenders can change items status to (Available, Taken, Under maintenance)	
<b>Administrator</b>					
13	Administrators can log into the system with their credentials.	Administrators can manage users.		Administrators can create, modify, delete users. Administrators can change user credentials. Administrators can change the user's roles.	

## **4.4 Alternatives and Competition**

The main competitors of our system are the MUM Community application, Facebook, and emails sent out by staff members of the school. The MUM Community application doesn't have any mechanism by which students can rent bikes or kayaks from the Recreation Center nor provide any specialized means of managing and finding events. But these features could be added along the road.

Event organizers utilize the Student Feed sub-system of the MUM Community application now and events tend to get hidden by multiple other types of posts on the same channel. Facebook notifications are not optimal because of the unguaranteed usage of the platform by students and the same can be said to emails.

## **5. Other Product Requirements**

The MUM Life system should be able to handle processing loads from multiple users being online at the same time. The system needs to be robust in that it should be able to bounce up from failure that may occur to one of its components.

The system should have a simple and easy user interface, both on the student and staff side, to enable better experience matching or exceeding that of MUM Community application. This will also eliminate the need for any user manuals, online help or installation procedure requirements.