

Shevis Johnson and Albert Pierce  
Final Project  
Professor Rene German  
Database Management  
12/18/16

# Ordinem Report

## What is Ordinem?

Ordinem is latin for Organization. Ordinem is an event manager that allows University organizations to connect with college students. We created this project because one thing that universities lack is student involvement. Ordinem gives organizations the opportunity to manage each of their events, create events and start events.

Many universities have some type of event manager, but they do not have a way of incentivizing students to engage in on campus activities. Ordinem bridges that gap and in return incentivizes students by awarding Ordinem points. Ordinem points are only accessible through the application and must be redeemed within the application. For each event an organization creates, they have the opportunity to set the amount of points each student will get for attending. This is the part that Ordinem comes to play. By incentivizing students to come to events, universities will have more student engagement. Students will also benefit from using Ordinem because they can redeem these point for university bucks or local coupons.

## Issues Ordinem addresses

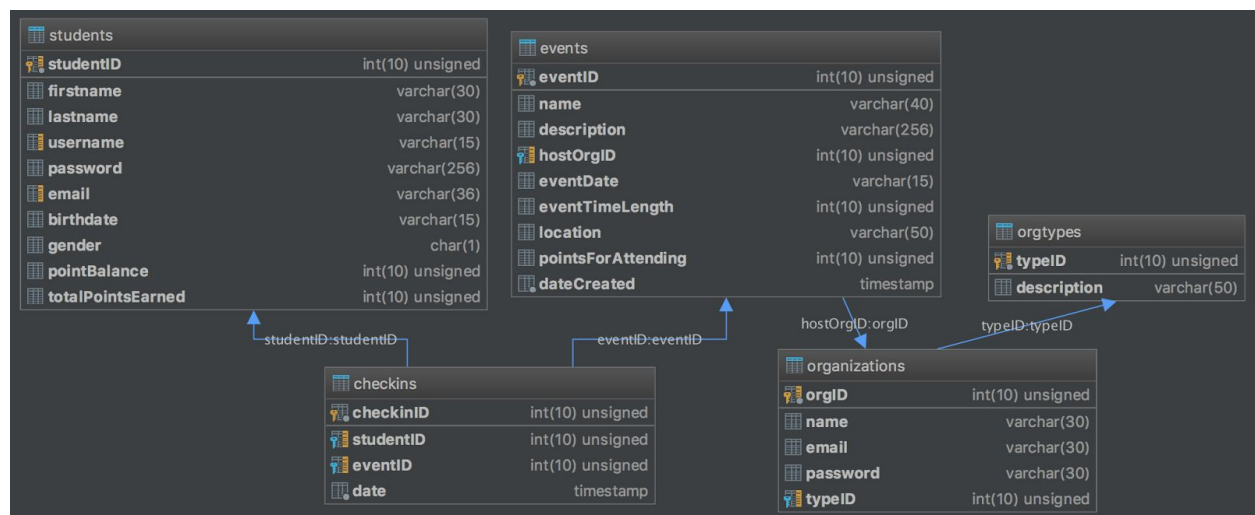
Increasing student engagement is one of the greatest challenges many universities face today. Attendance at on campus events has been steadily declining over the past few years, and many of the tactics that campus organizations typically employ to attract more students simply haven't been as effective as they used to be. Furthermore, universities have a hard time tracking the attendance of events organized by student-based groups such as greek chapters or clubs which could provide them with valuable insights into the interests and future careers of their own students. These two issues are specifically what Ordinem aims to resolve.

## Elements of solution

The solution we devised to help solve these problems is primarily broken into three components: a central database, an organization portal, and a student portal. The database, a MySQL database hosted on Microsoft's Azure, stores information about each individual student, each organization, each event, and each time a student checks into an event. This database serves as the central point from which all other pieces of the platform draw their data, and will be the source from which any student engagement insights we provide will originate. The organization portal is a Java program which campus organizations can use to create and edit events, manage organization settings, control when events go live, and check students in as they arrive. The last component is the student portal which takes the form of an iOS application. This iOS application will be publicly available on the app store and free for any student to download, however

students must login with their chapman credentials to gain access. This application allows users to see all events that are being hosted on campus, the organizations which are hosting them, and allows students to view the amount of points they have earned from attending events so far. The only piece of the student portal we still have yet to implement is the ability to cash points out for panther bucks, however that ended up being beyond the scope of this project.

## Schema diagrams



The schema diagram attached above displays our layout. Our diagram consists of five tables which include: organizations, organization types, students, and events, checkins.

## Functionality

The functionality of Ordinem is divided into two types, the organization based side and the student based side.

The organization side is only allowed the functions that are mostly managerial. Organizations can create events, start events, check organization settings, update

settings, and logout. In the create events button, the organization will list out all properties of an event and create the event. As the application is running all fields in the create events page must contain some type of value in order to execute its command. If one or more fields is empty the organization will not be allowed to create an event. This type of error check is for every function in the application to maintain this type of error checking. In the organization settings page, the user will be shown a table view of all the organizations information such as username, password, and organization name. From here the organization will have the opportunity to change or update the organization's information. The start event page is a little bit tricky to get to because it is reliant on the time of the event. The start event button will only happen if the event is clicked on and the local time is within 30 minutes of the event. This will then allow the organization to click on the start event button. From there, the organization can type in student ID's that are in the database and check in a student to the event. If the student ID is not in the database or anything else, the program will throw an error and the organization will have to retype an ID or close the page.

The student based side will allow the student to check into the application. By that the student will have the opportunity to type in their university email and university student ID. From there the student will check into the event and gain points for attending. Functions are limited to students because the event manager is more for organizations and students are only allowed to check in.

## Conclusion

Ordinem is an event manager that allows universities to connect organizations with students. Students can attend organization held events and are incentivized with university bucks or local coupons. We still plan on continuing this idea and presenting it to Chapman University. We still have many functionalities to include for the organization and the student, but we wanted to limit what we will show to the class. We plan to release our idea in late to mid February. For now we have implemented a Java FX GUI for the scope of this class, but Ordinem will mostly be an IOS application. We will also try and make it android friendly to encompass every student no matter the type of phone they are using. We are excited to present our application to the students of Chapman University and hope that we can expand this to other universities around the nation.