

ICS-Evo System Requirements

Inf 43 – Homework 2

February 11, 2019

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Introduction

ICS Event Organizer, or ICS Evo, is an UCI-affiliated mobile application intended specifically for Android and iOS devices. It is exclusively targeted towards UCI School of Information and Computer Science students and faculty.

This application hopes to fulfill the void left by other event apps in that it lets you cater your event specifically for a certain subsection of the school (i.e. only ICS). This enables the application to be very focused in its features and not be bogged down by the unnecessary complexity of other event planning applications.

Students today are sent more emails than ever before, which makes reading through them a very cumbersome and undesirable task. If there was a dedicated app just for ICS events, students would not need bother pursuing their email and could instead just open the ICS-Evo app in order to find out about ICS events. This is beneficial for students, of course, but more so beneficial for event organizers because they can expect to attract more attention for their events.

Overview / Executive Summary

The goal of this app is to serve as a means for ICS students and faculty to discover events that they may be interested in without having to filter out irrelevant ones.

Since this is a mobile application available for both iOS and Android, it is both portable and extremely convenient to use as you do not have to be next to a physical computer in order to use it.

Event creators are members of the UCI Office of Information and Technology, faculty, or other individuals who have been given the permission necessary to create events and set their specifications, including tags or descriptions. No other people may create events. People can sign up for the event by first logging in through the UCInetID secure login page. If it determines one is a member of the school of ICS and eligible for the event, the sign-up will go through and you will be added to the event guest list/RSVP'd to the event. There is no limit on how many events one can attend though there is one on the length of the guest list. If at any time prior to the event the details are modified by the event creator, everyone on the RSVP list will get a push notification making them aware of the change so that they can plan accordingly.

The ICS-Evo app hopes to dramatically change how ICS students look for and find events in their specific field of interest in order to make their time at UCI smoother.

Application Context / Environmental Constraints

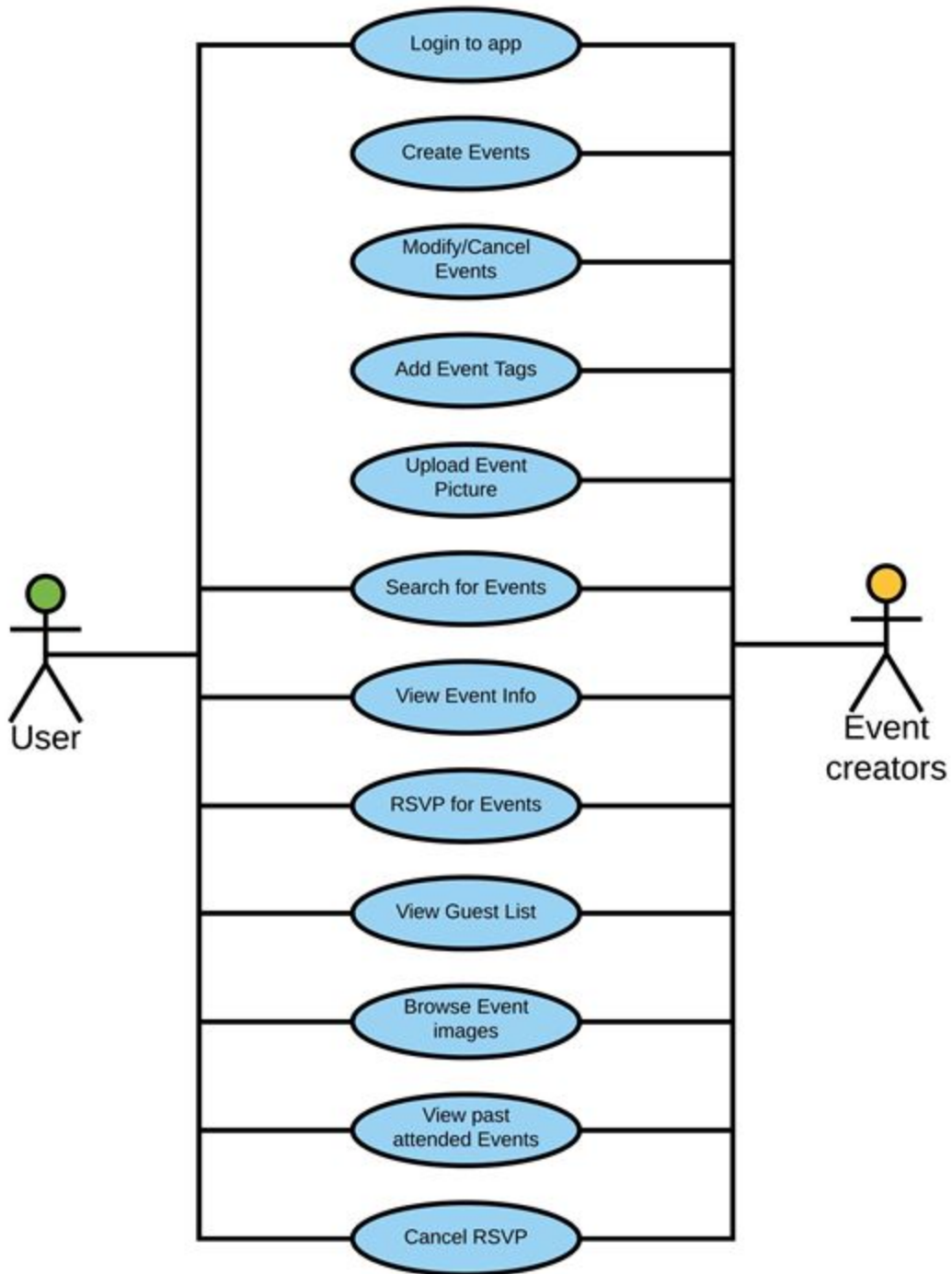
ICS-Evo will be a mobile application which will work for two different mobile platforms: Android and iOS. It will work on tablets such as Android-based tablets and iPads, but it is primarily designed to function with smartphones first. Hardware requirements will consist of the

devices that users will use to access the mobile application and the server space used to store information. When first opening the application, you will be redirected to the UCInetID secure login page where you will enter your credentials and after your credentials have been authenticated then you will be allowed access into the application. The application's UI will be very simple and easy to use. It will consist of a search tab to search events by their respective tags and then a button to RSVP. There will be a section for events you have currently RSVP'd for and one for previously attended events. The interface is meant to be very simple hence its high level of intuitiveness. Once an event is found the information will be displayed and will include the optional images, tags, guest list, event time, event location, and event creator. Event creators will have all the functionalities of users but will also be able to create events. When creating events, the creator must have at least one tag and write the necessary information which includes the abstract, event images(optional), event date, event time, and event location. Creators can also modify events once they are created but when modified users who are on the guest list will all be sent a notification on their devices. Once events are past they will be automatically be moved to the section for past events.

Functional Requirements

Functional requirements is one of the key essentials of ICS Event Organizer (ICS-Evo). One of the core things to look at is how each feature is interrelated and how it contributes to the overall app. This section will explain all functionalities of the application.

At first when the user accesses the app he is redirected to the login where he would need to provide his UCInetID. Past and future events are in two different sections. Following the user will then be able to browse through events by department with the ability to filter by tags and sort by date, after the event is decided it would view the event information and view guest list. There would be no waitlist and every event is first come, first serve. Event creators will be allowed to view the event from the user's point-of-view. They also have the functionality to create the event providing description and location of the place including name and time. Another functionality would have is to update the event which includes cancelling the event. This would notify guest list by push notification and say what has been changed. For ICS affiliates who have been given permission to create events the application everything be exactly the same except for the fact that they have the ability to create events. Event creators will have the same exact display except for the fact that they will have a create event button that will navigate them to a create event page where they can enter in the event details.



Software Qualities and Non-functional Requirements

Accuracy: Information uploaded to the application must be accurate. Event description, timings and location must be accurate in order for users to correctly find the event they are viewing.

Changeability: If event details were to change event creators must have the ability to modify the event on the application. For example if an event's location was to change the application must allow the event creator to alter this information on the application in order to alert people who have already RSVP'd to the event.

Efficiency: When RSVPing or viewing an event the application must be efficient and not lag.

The system must be efficient and allow the user to complete whatever action he is taking.

Security: The UCINetID login page must be secure and users should not fear their information being leaked or hacked in anyway.

Simplicity: The application should be easy to understand and navigate. Users should be able to discover what specific aspects of the application do without too much effort.

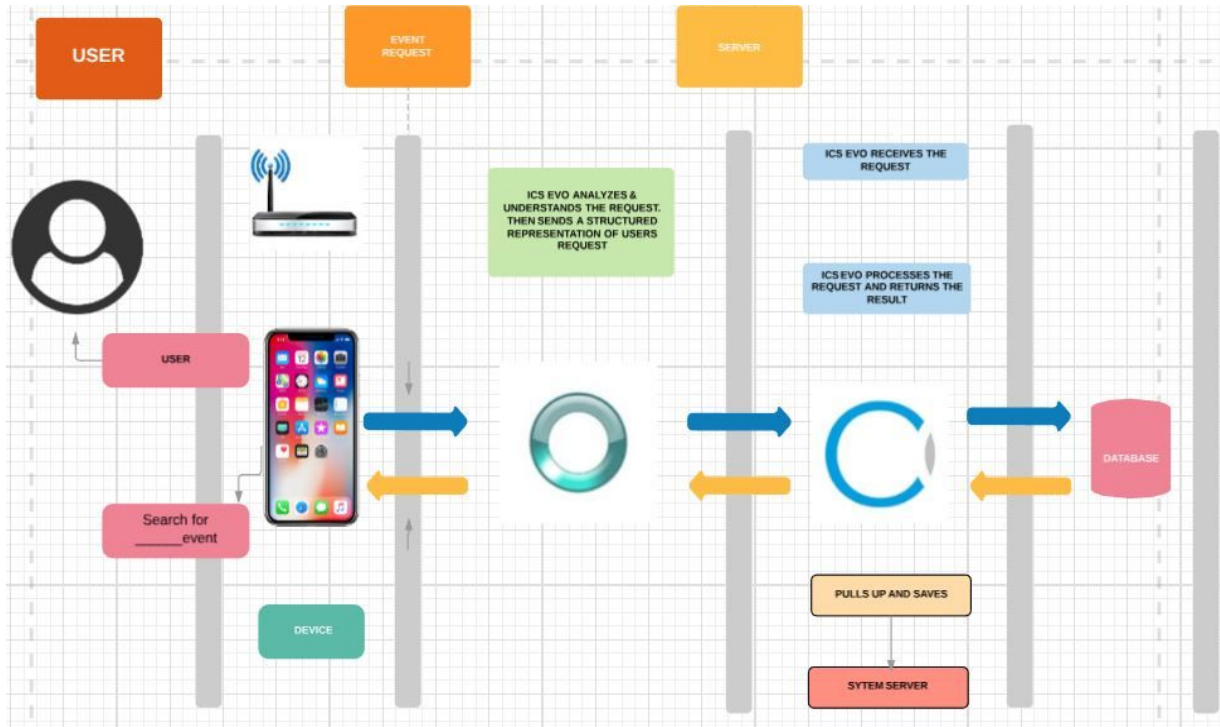
Safety: The application must be safe to use and free of any bugs that could cause issues in the users' devices. The application should be free of any bugs viruses or any other software issues that could compromise application safety.

Stability: The application should be heavily tested for any possible issues to prevent it from crashing during use. Before introducing the application to the public it should clear multiple tests to verify that it is stable and no issues are found.

Usability: The application should be intuitive and clean their should be no clutter on the home screen. If the application isn't intuitive it would make it difficult for users to use the application.

Other Requirements

One requirement I would consider is adding the architectural design for the ICS Event Organizer application on how the application pulls up and sends information to the database. So, first of all we have the user and he interacts with the application and searches for whatever event he desires. And if the device is connected to an internet connection the application would analyze the request and send a structured representation of the users request. After the ICS EVO receives the request it would process it and returns the desired result from the database. Here is diagram below on how it would work.



Glossary of Terms	
Application	Smartphone/iOS & Android
User Interface	The part of the software the human user interacts with.
Usability	The measure of how easily an ICS affiliated person can use a program
Future accessibility	Capable of being used in the future. Survive technological change/progression.

Assumptions / Risks

Assumptions:

- UCInet will always be active and never go down
- Students will know whether or not an event will actually fit within their schedule
- Event organizers will know who to contact in order to gain authorization to use the app
- People who RSVP'd will show up
- Enough people will download the app to justify having event organizers learn how to use it

Risks:

- Financial - If the app is not used by too many people, then it would have been a wasted investment by the stakeholders
- Security - One student could potentially stalk another because they would be able to see the events they have RSVP'd to
- Stability - Don't know if app would be able to handle too much concurrent traffic
- Technical - Learning curve may be too high for some event organizers
- Privacy - Students may not want their RSVP details to be shared

Priorities / Implementation Phases

Must Have:

- ICS EVO must always have an internet connection to retrieve data
- ICS EVO must have a simple and usable UI.
- The app must be visible for all events all departments

Should Have:

- Event information displayed should have images, tags, guest list, event time, event location, and event creator
- When creating events, creator must have at least one tag to write the necessary information
- Modify events once they are created. (Creators Only)
- Past events are shown and should be moved to past section.

Nice to Have:

- A website that can store information for past events we attended. This is for a more detailed view instead of looking at your phone.
- When logging in for the first time there should be a user agreement on the how the app is intended to be used.

Future Directions and Expected Changes

ICS-Evo will likely evolve as time goes on in order to adapt to the future

- Could make user guides for each actor participating in the application in order to simplify transition into ICS-Evo
- Could make a user agreement in order to release liability from privacy concerns
- Should feature Google Calendar/iCal integration
- If the app needs to be updated consult with OIT department to make certain changes.
- Connect application to Facebook, so all favorite/interested events on Facebook will match same or related events on the application
- Add a friends section to see which friends are attending which events.
- Event notifications could be sent out at times predetermined by the user
- Automate event creator account verification so OIT does not have to clear each time.