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SoftDev pd7
P01 -- The End

Event Calendar

A Calendar app that allows users to create events, and invite people to events through email. Users will be able to create accounts with unique usernames, register their emails and create contacts using other users' emails. Their contacts will allow them to store some information in an address book. When viewing events users will be able to see the time and place of the event as well as the weather forecast for that area at that time.

Functionality:

- Users can create account and login
- Create contacts using username and/or email
- Create and view events
 - Events will have a location, time, and a list of users attending
 - Users can invite contacts to events via email
- Users can make private reminders
- User will receive emails when invited to events
- Users will be reminded of events via email
 - This will be done using Flask functionality (Flask-Mail extension)
- Messaging between users (stretch)

Components:

- Flask for running the website
- Bootstrap for nice formatting. We have chosen Bootstrap over Foundation because we all know it better
- CSS for additional formatting
- Python script for backend, especially dealing with databases
- Flask-Mail for sending email
- APIs:
 - OpenWeatherMap for weather
 - Holiday for holiday dates
 - OpenStaticMap for locations on maps
- SQLite databases for data storage, as seen below
- Javascript in order to have more functionality with Bootstrap (like pop-ups) and auto-complete for typing in contacts
- Jinja for templating

Database Schema:

Users

Username	Password	Security Question	Security Answer
TEXT	TEXT	TEXT	TEXT

User_contacts (each user has one)

First Name	Last Name	Email	Username	Birthday	Address
TEXT	TEXT	TEXT	TEXT	TEXT	TEXT

Events

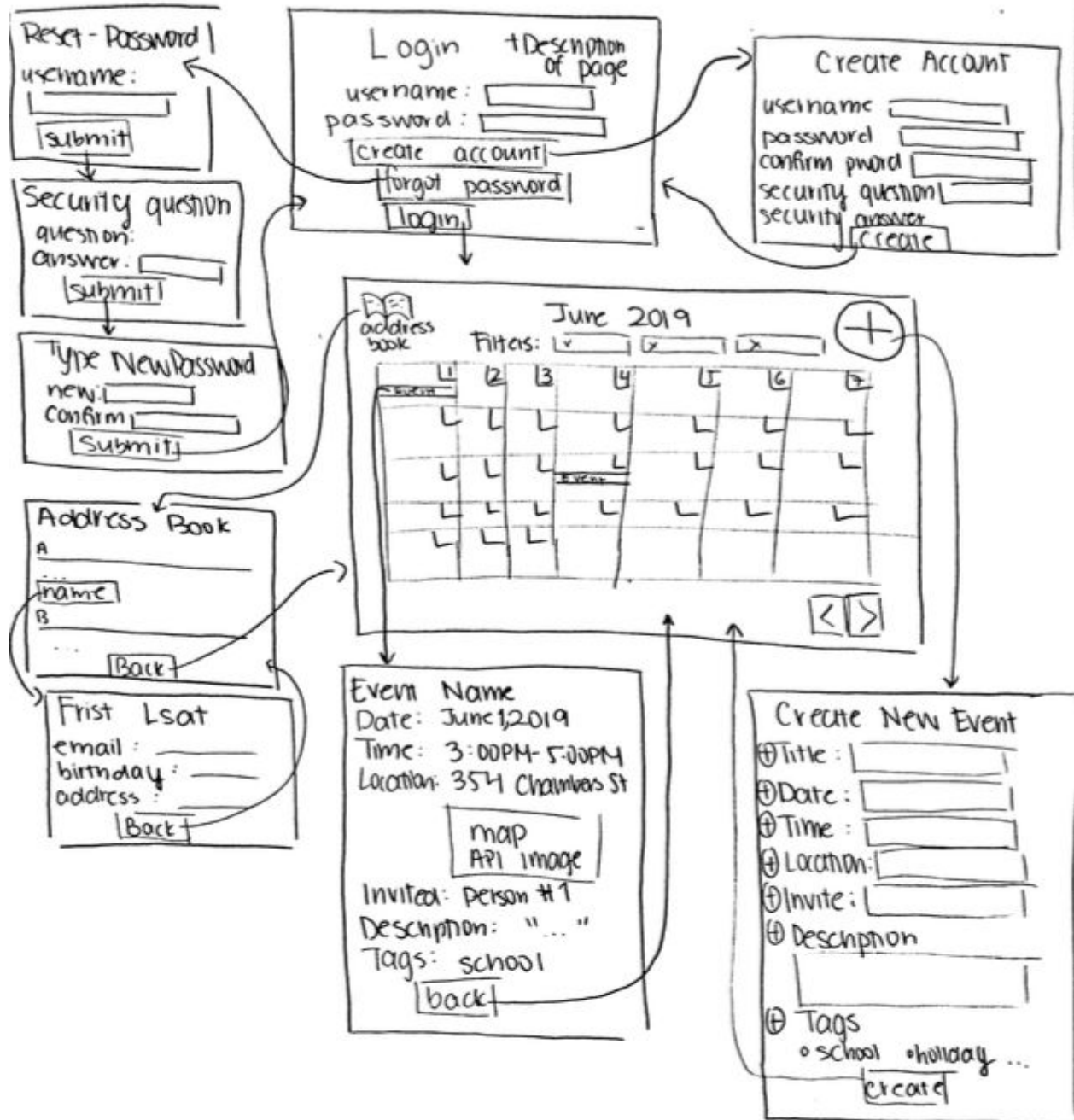
ID	Event Name	User	Date/ Time	Location	Description	Tags	People added (Comma Separated)
INTEGER	TEXT	TEXT	INTEGER	TEXT	TEXT	TEXT	TEXT

To-Do List:

1. Setup GitHub Repository
2. Start with Flask starter kit
3. Create a basic login system and main calendar page - create calendar with Bootstrap and add important information such as dates and day names
 - a. Add UI for adding events, upon button press Bootstrap Modal is shown with form for creating events - events will only contain information about the date and name for early versions
 - b. Include login and signup links on this page, but styling up these pages will wait until later
4. After basic functionality has been implemented, add in widgets that make use of the various APIs
 - a. OpenStaticMap - returns images of location and used for location search
 - b. Holidays - returns the dates of holidays
 - c. OpenWeatherMap - returns location for given location at given time
5. Add in extended functionality for users:
 - a. Ability to add other people to an event
 - b. Create database storing contacts
 - i. Email contacts using Flask-Mail
 - ii. Auto-fill using Bootstrap
 - c. Add in categories for student-based events (homeworks, projects, tests)
6. Create landing page
 - a. For users not logged in, it is a simple static page explaining our application or a login page

- b. For users that are logged in, it acts as a dashboard, giving brief summaries of all of their upcoming events
- 7. Test extensively and fix any bugs

Site Map:



Component Map

