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MIT Event+

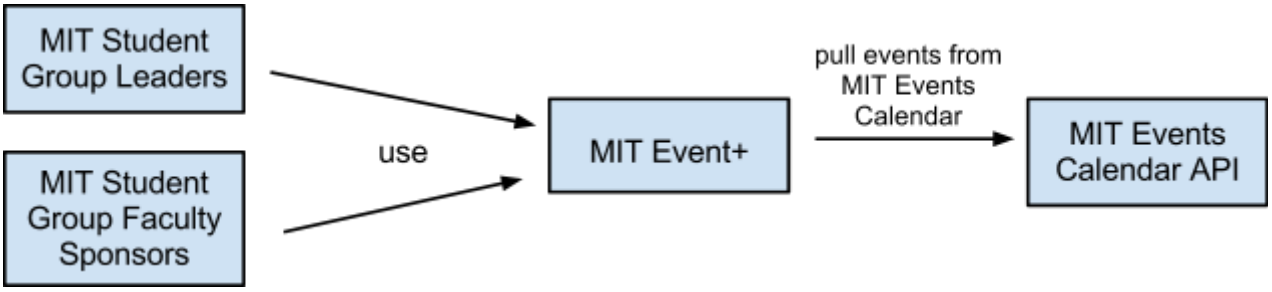
A student group event planner for MIT

1 Overview

1.1 Purpose and Goals

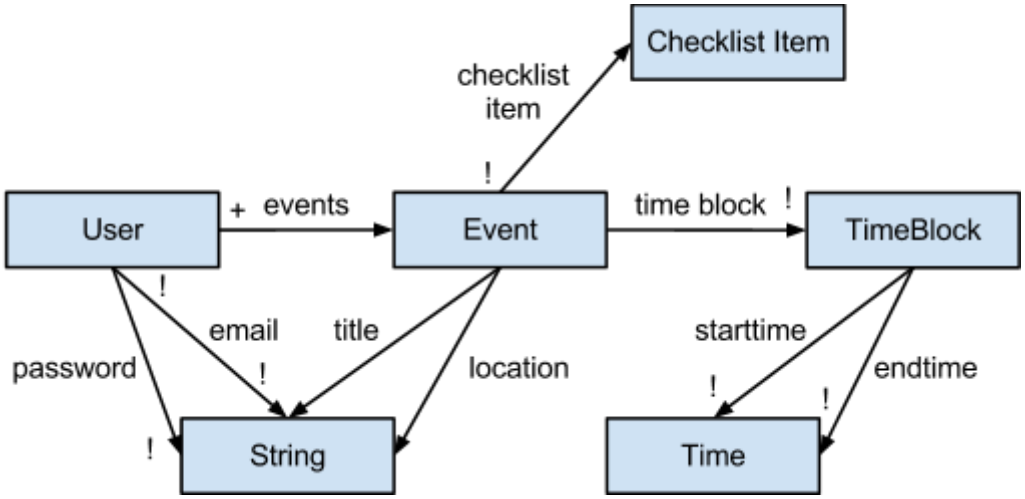
The goal of this website is to streamline event planning at MIT by congregating all aspects into one easy-to-use interface. Existing solutions supply general functionality, but do not address the specific challenges an MIT student group faces when planning events. MIT also provides various services that address a specific aspect of event planning, but often these are poorly documented and fragmented. We aim to create a system that integrates with MIT's services to give a step-by-step event planning service and eliminate the learning curve that comes with planning events at MIT.

1.2 Context Diagram



2 Domain

2.1 Object Model



* Calendar is an object created from all events on the Events@MIT website.

* TimeBlock - Each event has a notion of a timeblock that can be easily compared to other timeblocks to determine conflicts.

2.2 Event Model

FirstTimeUser ::= signUp authorizeAccount*

NormalUser ::= (login (createEvent | editEvent | deleteEvent)* logout)

Definitions of Non-obvious Events:

> **authorizeAccount:** Authorize each new group by sending an authentication email to the MIT student group email.

3 Behavior

3.1 Feature Description

Student Group Account Validation: When a student group registers for our service, they must be registering with the "@mit.edu" mailing list for their club. Further, the email must belong to an ASA recognized student group. Finally, we will send an email to the student group mailing list so they can validate the account.
Student Group Account Management: Anyone in a student group can register their student group, and after being validated, they can login and create events.
MIT Event Calendar: A calendar displaying events at MIT so that student groups can easily avoid conflicts with other events when planning their own.
Event Creation: Student groups can create an event and add it to the calendar.
Event Checklist: Student groups have a pre-generated checklist of things to do to plan the event and can add items of their own.

3.2 Security Concerns

Spam Attacks: A random user could try to create a fake student group and spam our service by either adding a bunch of nonsense events to our calendar or spamming our services (that we will add later). We prevent this type of attack by validating email addresses that you register (through the ASA database list of officer email lists, which we assume will be accurate).
Fake Credentials: If a user is able to register as another student group, they would be able to hijack their account and register events on their behalf. We prevent this by sending a validation email to the registered student group mailing list.
Authentication: Under no circumstances should a nonregistered user/group be able to make events. All features of our service must be done by a logged in account.

3.3 Operations

GET /

Effects: Returns a welcome page

POST /login

Requires: An email and password

Modifies: Session

Effects: Authenticates and logs user in

DELETE /logout

Requires: Group is logged in

Modifies: Session

Effects: Destroys session data for group

POST /event

Requires: User is logged in, event details

Modifies: Event, Calendar

Effects: Creates new event and puts it on the calendar

POST /event/edit

Requires: User is logged in, ID of event, details to edit. User must own event

Modifies: Event

Effects: Modifies content for event.

DELETE /event

Requires: User is logged in, ID of event. User must own event.

Modifies: Event, Calendar

Effects: Destroys an event on the calendar

POST /checklist_item

Requires: User is logged in, ID of event. User must own event.

Modifies: ChecklistItem

Effects: Creates a checklist item bound to an event

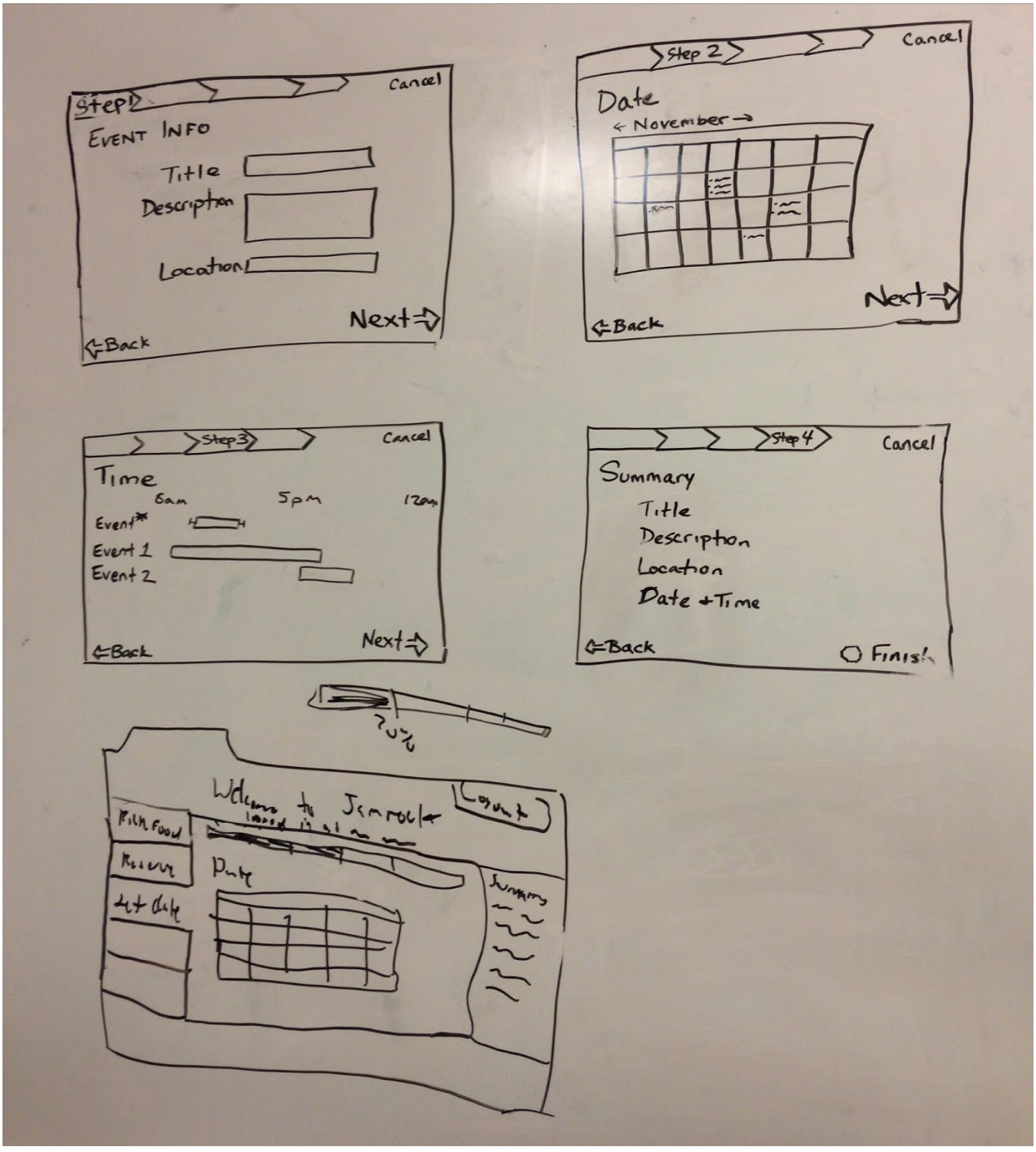
DELETE /checklist_item

Requires: User is logged in, ID of event. User must own event.

Modifies: ChecklistItem

Effects: Destroys a checklist item

3.4 User Interface


Step 1
Cancel
Event Info
Title
Description
Location
Next
Back
Step 2
Cancel
Date
November
Next
Back
Step 3
Cancel
Time
6am
5pm
12am
Event
Event 1
Event 2
Back
Next
Step 4
Cancel
Summary
Title
Description
Location
Date + Time
Back
Finish