

## Extended Application Design and Work Plan

Page 1

### Description

This document describes the design and work plan needed to extend the original application to include Event management services. Such a system could be used to allow conference attendees to sign up for presentations, workshops or other events.

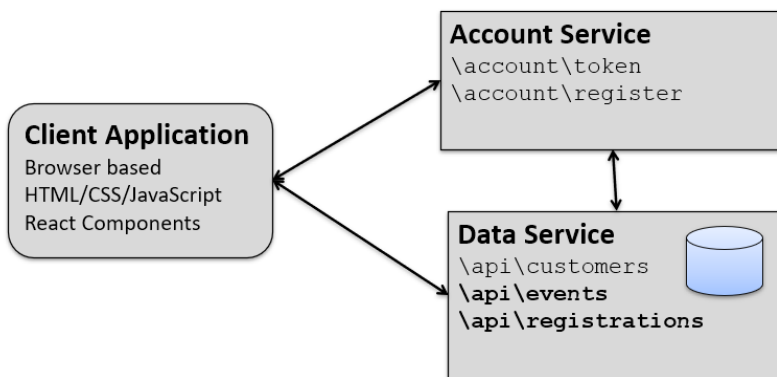
The system requires additional REST apis that:

- Create, Update and Delete Event records
- Create, Update and Delete Registration records.

User workflow:

- User registers themselves in the client application
- User then Logs into the client application
- User views a list of events
- User creates a registration record for events they want to attend.
- Administrative users add new events as needed

### Component Diagram



### New Components

- Events API Service
- Registrations API Service

### Component Interaction

- The client application gets event records from the Event service and displays them

## Extended Application Design and Work Plan

Page 2

- The client application uses the Registration service to create records linking users to Events
- The client application can display a list of all the events a user has registered for
- The client application allows users to modify or delete previously created Events or Registrations

### Event & Registration Data Services

- Service information
  - context path = \api
  - port = 8080
- Backend Data
  - Will use embedded hsql database
- Endpoints
  - \account\events
  - \account\registrations
- Security
  - A servlet filter will intercept requests to the data apis and check for JWT tokens
- Events Endpoint
  - Supports CRUD management of Events records
  - Supports GET, PUT, POST and DELETE requests
  - A JWT token is required for all requests
- Registrations Endpoint
  - Supports CRUD management of Registrations records
  - Allows customers to register for events
  - Supports GET, PUT, POST and DELETE requests
  - A JWT token is required for all requests

### Work Plan (high level)

- Create schema and initial data for Event API
- Create Event API and Code CRUD endpoints
- Create schema and initial data for Registrations API
- Create Registrations API and Code CRUD endpoints
- Add an Event List page to the client application
- Add a registrations list page to the client application
- Add a form for adding/modifying/deleting Events
- Add a form for adding/modifying/deleting Registrations
- Test the new Event and Registration features