XSports Viewer

Students participate in a variety of after school activities to include sports, which can create travel demands and scheduling issues for parents. Despite having the school calendar on a website and a handout sent home at the beginning of sports seasons, it can be a challenge determining where the games are being held and start times.

The goal of the application is to provide parents access to following on their mobile devices:

* School Search capabilities
* School Contact Details (Phone & Map)
* Calendar of School Sport Events (always up to date)
* Ability to Sync Events with Phone Calendar
* View Scores and Receive Notifications

Additionally, the application will provide the following administrative functions (Tablet):

* Create and Update Sporting Event Calendar (Secure)
* Update School Contact Information (Secure)
* Update Event Outcomes / Scores (Secure)

The technical objectives of the project are the following:

* Work in collaborative groups using various tools:
  + Trello
  + Github
* Authentication (Choose one):
  + ADFS
  + OAuth
  + TokenBearer
* Notification (Choose one):
  + Push Notification
  + Background Fetch/Boot Pooling
  + SignalR
* Hardware Services
  + Phone
  + Map (Navigation)
  + Email
  + Calendar
  + Contact
* Offline data sync

Objective 1: Project overview and team organization

* Organize groups.
* Login to Github and Trello accounts.
* Checking base project into Github for team (Use Common.Core as starting point).
* Choose database architecture and import data.
* \*\*\* if needed \*\*\* create additional Web API project and with method and tests to access data from deployed data sets.

Objective 2: Authentication and Authorization / UI

* Define architecture and service classes needed to authenticated users to call data APIs.
* Define base data models
* Create CRUD Account Management and UI Functionality
  + Login
  + Logout
  + Account Management

Objective 3: Game Roster Administration (Tablet)

* Business logic to create and maintain game rosters
  + Web APIs, Services, ViewModels
* Create tablet administrative UI for Roster Management
  + Create Events
  + Update Scores

Objective 4: School Search and Event Viewer (Phone)

* Implement offline data sync for schools and event data.
* Business logic to search school and events and provide the following:
  + School Contact Information (Call & Contact)
  + Directions (Map)
  + Events Search and Details
    - Directions
    - Calendar
* Add Search to Favorites

Objective 5: Event Notification and UI Testing

* Implement push notifications on updated game scores
* Deploy project to HockeyApp for Team Testing
* Create UI Testing / Calabash for Mock Test Cloud