OpenAMS

SSISA Athlete Management System





Background

- Jembi entered into a development agreement with the Sports Science Institute of South Africa (SSISA).
- Develop an athlete training and monitoring information system to track high performance athletes and teams.

Background

- OpenMRS chosen as solution adapt to suit athlete management.
- Many similarities in patient and athlete management:
 - Encounters and observations
 - Functionality forms, reports, graphs etc.
 - Provider role matches sports administrator or manager
- Differences in patient and athlete management:
 - Sports admins manage a subset of athletes and teams
 - Athletes manage themselves to certain degree

Requirements

- Data Model should allow for various sports to be represented.
- There are various participation levels for each sport, e.g.:
 - Federation
 - National
 - Provincial
 - Club, University, School
- At each participation level, there are various teams, squads, or divisions.
- There are various roles that a participant may participate at, e.g.:
 - Athlete
 - Coach
 - Manager
 - Sports Administrator

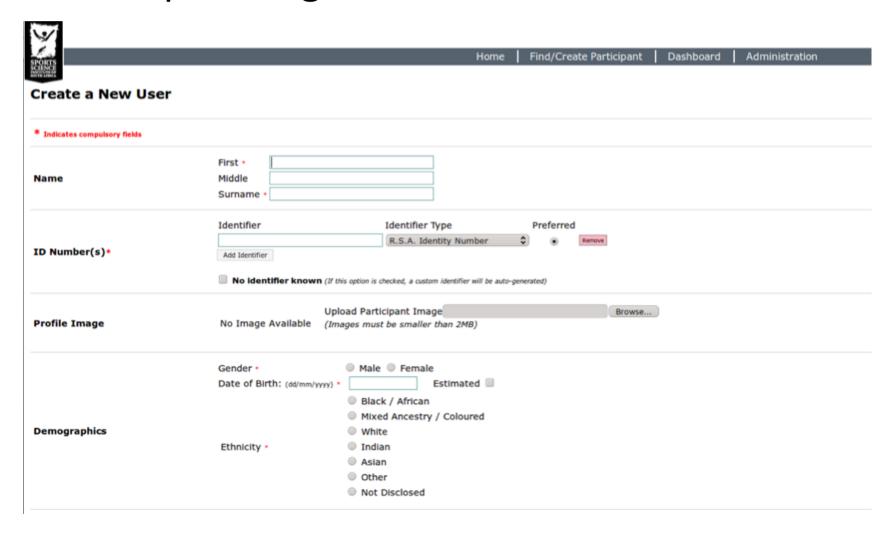
Requirements

- There are various playing positions for athletes.
- A participant forms part of a specific team or squad, with an associated role, over a period of time.
- Role based access control:
 - Determined by participation in a sport and associated team or squad during a period of time, with relevant user role permissions.
 - Includes access to:
 - Athletes
 - Forms
 - Reports
 - Sport and team info

Project Plan

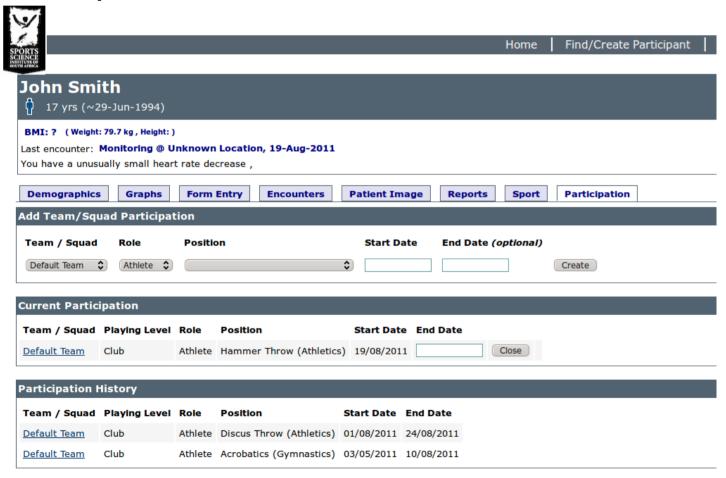
- Stage One:
 - Define concept dictionary
 - Define data model extensions
 - Compile forms and reports
- Stage Two:
 - Extend the framework of OpenMRS to meet requirements:
 - Core changes
 - Custom module development
- Stage Three:
 - Implementation of sports, teams, participation levels, positions and associations.
 - Roll out system.

Participant Registration



- Sport Management:
 - Sports
 - Teams and Squads
 - Team Attributes
 - Participation Levels
 - Positions
- Role based access:
 - Form restrictions
 - Report restrictions
 - Athlete restrictions
 - Search results
 - Administered using custom API:
 - Page filters limit access to pages based on criteria
 - Data filters limit access to data returned from database

Participation



- Customized graphs
- UI customizations
- Flags and alerts
- Help
- Group testing

Project Status

- OpenMRS has been configured to suit the athlete management model, and has been customized to allow athletes to be managed by themselves or by a coach or sports administrator.
- Custom modules have been developed covering user interface customization, participant registration, team/ squad management, as well as role and permission management.
- Work has progressed to allow for the modeling of SASCOC athletes and sports administrators. A large set of monitoring forms and reports are in the final user testing phase and work has begun on user documentation, group testing and reports as well as individual testing.