

Web App for Assessment and Planning Data Collection and Sharing for Disabled Veterans Winter Sports Clinic

Clients: Joel M. Bach (jmbach@mines.edu), Kendra Betz (U.S. Department of Veterans Affairs)

The Project: Development of a mobile app for data collection and sharing. Every Spring (late March/early April) the U.S. Department of Veterans Affairs and the Disabled American Veterans hosts the National Disabled Veteran's Sports Clinic (<http://wintersportsclinic.org/>) in Snowmass Colorado. This year nearly 400 disabled vets from all over the country came to the week-long clinic to learn alpine skiing, Nordic skiing, sled hockey, scuba, kayaking, etc. For those who have not participated in some of these sports before there is a day of pre-event clinical evaluation and fitting. This year a team of 12 recreational therapists, physical therapists, occupational therapists, orthotists, prosthetists, and an engineer performed the evaluations for over 60 vets participating in the alpine skiing (both standing and sitting) and snowboarding events. As part of this evaluation we used paper forms to capture and share data. This was inefficient and not terribly effective. We desire a web-based interface to capture relevant data, plans, photos, etc. so that the team can share them over the week. We're looking for a team to develop that app.

Desired skills/experience: Mobile device app development. A web based app would be preferred to minimize cross-platform compatibility issues. Alternatively, an app that is compatible with both Android and iOS, and that shares data via the cloud will be considered if the student team can make a strong case for this solution.

Information will be keyed to each participant's bib number and isolated from HIPAA protected information about each client. We will still require a secure interface and database.

Location: On campus, with potential for testing at VA or other site.