New Data Collection Methods for Research

Presented by:
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New ways to gather Research Data:

Using Mobile Apps, Sensors & Wearables

Mobile & Web Strategy team’s capabilities:

• Initial concept to user experience design to native app development
• Custom mobile push and scheduled messaging
• Deployment to UCLA’s Branded iOS and Android stores
• Custom data visualization dashboards, app usage analytics
• Partnering as an Investigator on grants with apps
MWS’s Mobilize Labs team collaborates with UCLA research community to develop custom research mobile apps.

“...I have contracted with many groups to accomplish our healthcare improvement goals but the pace, collaborative atmosphere, and creativity of the Mobilize Labs Team exceeds all of my previous experiences.”

Amy N Cohen, PhD
Co-director, Health Services Veterans Administration Desert Pacific Mental Illness Research, Education and Clinical Center
Associate Research Professor, Dept. of Psychiatry and Biobehavioral Sciences, Semel Institute for Neuroscience and Human Behavior
Levels of Engagement

**LEVEL 1**

**Pilot**

Mobile apps, notifications, data acquisition and export

**LEVEL 2**

**Mobile and Custom Data Dashboards**

Mobile apps, notifications as well as custom data dashboards for researchers

**LEVEL 3**

**Integrative Sensor Platform**

Mobile apps, multiple platform integrations, streaming data, sensor triggered interaction, engagement features
Child EM (Ecological Momentary Assessment)

- 2 Surveys
- Image based response
- Special Populations
- Random EMA notifications
- Snooze
- Works offline
VA Coach to Fit Project for SMI
PRISMS
Pediatric Research Integrating Sensor Monitoring Systems

Survey Question Tracker

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the past hour, did your child feel tight in their chest?</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>In the past hour, did your child have difficulty breathing due to their asthma?</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>In the past hour, did your child have wheezing or whistling sound in their chest?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>In the past hour, did you cough because of your child's asthma?</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Did you have to avoid or minimize activities that were hard to breathe due to your child's asthma?</td>
<td>8</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
Writing us into Grants

**STEP 1**
Set up a call to discuss once PI’s specific research aims are defined to see if Mobilize Labs can help.

**STEP 2**
The Mobilize Labs team will create an estimate and help to write the app and data sections of your grant proposal.

**STEP 3**
When the proposal is accepted the work begins...
Additional MWS and OIT/IDRE Services

• Data Driven Apps

• Custom Web Development

• Accessibility Services

• Advanced Research Workshops

• Software Training

Research consultations

• GIS and Visualization, Statistics, and HPC

High Performance Computing (HPC) Storage

• UCLA’s shared cluster and cloud storage services

UCLA I.S. Associates

• Technology community with corporations, government, and startups in SoCal.

  • Free events for all UCLA faculty, staff, & students.
  • Fall Breakfast Event: Sept. 20 @ 8am - 1:30p
Introducing Data Driven Apps

ZAP lets you create, refresh and manage your mobile content in real-time with ease.

- Configurable Dashboard
- Rich Templates
- Dynamic Content Management
- Map Integration
- Notifications (Local and Push)
- Timelines
- Embedded Videos
- Calendar Integrations
- VR

Zap.ucla.edu
Web Development
Professional Services: Custom Integrations

Customized Drupal Integrations

- Social Media News Feed
- Web Accessibility Development
- Visual Photo Slides
- Archive Film Library
- Custom News and Event Feed
- Advanced Search Engine
- Customized Menus
- Custom Graphic Designs
- Event Calendar
- Mobile and Tablet Enabled
OIT’s Disabilities and Computing Program offers consulting services to UCLA community to review your website for compliance with the UC IT Accessibility Policy and broader W3C Content Accessibility Guidelines.

- Reviewing: desktop and mobile presence, page structure, menus, images, tables, forms, documents, videos, and applications.
- Assessments are free for UCLA community on a first-come, first-served basis.
- Additional consulting services available with fee.