MEPI Connect – “Uganisha”

Graduate Tracking Software Developed by the MEPI Technical Working Group for Graduate Tracking

Michael Drane, Open Source Community Manager, CapacityPlus

MEPI Physician Tracking TWG Session, August 7, 2014, 10:30 – 12:00

The views expressed in this presentation do not necessarily reflect the views of the United States Agency for International Development or the United States Government.
Uganisha means Connect!
1. Determine Functional Requirements- What tasks must the system accomplish for its users? 
   Oct 2013
2. Modify existing open source software according to documented requirements. 
   Jan- Apr 2014
3. TWG reviews prototype demo version Apr 2014
4. Proof of concept at KCMUCo Jun 2014
5. User Validation Workshop at KCMUCo Jun 2014
6. Make final development tweaks from workshop Jul 2014
7. Release pilot version of the software to TWG schools Aug 2014
8. Release software globally under open source license TBD 2015
Functional Requirements
Development Workshop

- Focused on developing a system to track medical school graduates (paper or electronic).
- Developed 6 business processes the system must
  - Locate Graduates
  - Collect/Update Graduate Info.
  - Search and View Graduate Info.
  - Create Graduate Tracking Survey Tools
  - Managing Graduate Tracking Survey Response Data
  - Generate Reports
- Software system is a tool to assist in the multiple but not all business processes.
- List of functional requirements for the system served as the specifications used by software developers.
User Validation & Training Workshop

User Group

Developer Team
Hackathon Process

Users demo and enter data into software. Provide feedback to facilitators.

Facilitators enter changes into bug tracker.

Developers ask clarifying questions and commit changes in the system in real time.
System Core Features

- Manually enter individual data or upload bulk sets of graduate data
- Filter Search results based on key variables
- Customized reports
- Log into system over the web
- Graduates can log in and update their own records
- Role based access
- Contact Log
Key Variables

- Current Employer
- Employer Type (Public, Private, FBO)
- Community Engagement
- Job Preparedness
- Undergraduate Education
- Employment Status Prior to Enrollment
- Residence Prior to Enrollment
- Current Address
- Marital Status
- Specialty

- Private Practice?
- Where did you grow up?
- Where did you live the longest?
- Nationality
- Internship location
- Year of Internship
- Sponsorship During Education
- Registration Council
- License Number
- Job Satisfaction
- Okay to contact
- Deceased?

- Loan Amount
- Loan Status
- Job responsibilities
- Okay to contact?
- Primary/Secondary School
- Contact Date
- Contact Notes
- Rural & Urban designations to certain variables
- Photo
- Post graduate education
### Individual Information

<table>
<thead>
<tr>
<th>Name / Nationality</th>
<th>Introductory</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name</td>
<td>Contest</td>
</tr>
<tr>
<td>Given Names</td>
<td>Parent</td>
</tr>
<tr>
<td>Current Employment Status</td>
<td>Employee</td>
</tr>
<tr>
<td>Current Residence</td>
<td>Region</td>
</tr>
<tr>
<td>Place of Birth</td>
<td>Region</td>
</tr>
</tbody>
</table>

### Contact Information

<table>
<thead>
<tr>
<th>Education Details</th>
<th>Medical School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical School</td>
<td>Tarhink Regional Hospital</td>
</tr>
<tr>
<td>Year of Graduation</td>
<td>2003</td>
</tr>
</tbody>
</table>

### Employment History

<table>
<thead>
<tr>
<th>Employer Information</th>
<th>Employment History</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>Tarhink Medical Council</td>
</tr>
<tr>
<td>Employment Status</td>
<td>Tarhink Medical Council</td>
</tr>
<tr>
<td>Registration Number</td>
<td>Tarhink Medical Council</td>
</tr>
<tr>
<td>Registration Date</td>
<td>Tarhink Medical Council</td>
</tr>
</tbody>
</table>

### Geographic Information

- Tarhink, Medical Council
- Registration Number: 123421
- Registration Date: 12 January 2016
- Registration Status: Registered
Reporting Capabilities

- Cross reference any set of variables
- Generate pie or bar graphs
- Filter within the report by any variables
- Set reports to be emailed to recipients automatically
- Print hard copy reports
- Group reports together by type or by role
Role within Institution
Rural to Urban Migration Trends
### All Graduate Report with Filters

![Graduate Tracking Software](image)

<table>
<thead>
<tr>
<th>Graduate ID</th>
<th>Name</th>
<th>Date of Birth</th>
<th>Other Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>123456</td>
<td>John Doe</td>
<td>01/01/1980</td>
<td>Medical School</td>
</tr>
<tr>
<td>654321</td>
<td>Jane Smith</td>
<td>02/02/1981</td>
<td>Employment Information</td>
</tr>
<tr>
<td>789012</td>
<td>Michael Brown</td>
<td>03/03/1982</td>
<td>Residence Details</td>
</tr>
</tbody>
</table>

Sorting by: Such as (Decreasing), First Name (Increasing)

**Columns:**
- Graduate ID
- Name
- Date of Birth
- Other Details
- Medical School
- Employment Information
- Residence Details

**Rows:**
- Each row represents a graduate record.

**Filters:**
- Available for Current Employee Type, Private, Decreed-F, etc.

**Note:**
- Filters can be applied to sort and display data accordingly.

**Footer:**
- Capacity Plus
- Serving health workers, saving lives.
Surveying Graduates is a key business process for graduate tracking.

MEPI Connect can upload graduate survey responses.

TWG for Graduate Tracking has developed a general survey using SurveyMonkey.

Company Meeting Survey

Thank you for your feedback.

Please enter the name of the meeting you attended:

Your Name

Topics Covered:

Location:

Length:

Please enter any additional comments:

Get This Form for Yourself

Log into SurveyMonkey or sign up for a free trial subscription and you can use this form as a template to get your started.

Click here: [http://www.surveymonkey.com](http://www.surveymonkey.com)
Optional Features

- “Self-service”- Graduate can log into system over the web and edit certain variables.
- Custom user interface design- Same look and feel as the schools website.
- Role based access- limit visibility and functionality by user role.
- Interoperable with Professional Council and MOH HR information systems.