**Achievement Hound Web Application**

**School of Computer & Information Sciences**

**Regis University**

**Saikat Mukhopadhyay, Kevin Pyatt, Marta J Brooks**

**08/28/2018**

**Objective**

Achievement Hound app is database driven to facilitate faculty and staff specific CRUD operation and report generation . The app follows Systems Development Lifecycle(SDLC) or Application development life cycle. Dynamic work done by the app is manipulated by the app administrator. The app can manage their work and achievements in the areas of scholarship, teaching, service and mission. Application will able to generate and download monthly report based on specific requirement.

**Findings**

Faculty in the Department of Pharmacy Practice are experiencing a need to have faculty-specific data like mission and service work, scholarship and teaching; to be stored in a database that can be later accessed to create reports, and bibliographies. Furthermore, there is a need for data analytics to be run on relevant faculty-specific data for the purposes of trend analysis and forecasting.

**Problems**

Department of Pharmacy Practice are experiencing a need to have faculty and staff specific data. Data might be related to service, mission, scholarship or teaching. Also need for data analytics to be run on relevant faculty-specific data for the purposes of trend analysis and forecasting and weekly/ monthly reports. The department don’t have such database driven web application to manage faculty, staff and reports.

**Research Goals**

* Innovation research to develop a database driven course development process based on Software principles.
* To utilize software engineering design principles to design / develop / implement a database driven web application for pharmacy department.

**Design Goals**

Process Level:-

* Rapid Prototype Design is a systems development method (SDM) in which a prototype (an early approximation of a final system or product) is built, tested, and then reworked as necessary until an acceptable prototype is finally achieved from which the complete system or product can now be developed.
* Using Agile Development method which is iterative and incremental software development methodologies to build an app in a steady progress.

Application Level:-

* Simple but robust database design
* Use of google scholar bibtex builder feature
* Use CRUD ( Create, Read, Update, Delete ) operation.
* Simple interaction
* Report generation and download facility.

**Development**

PHP, MySQL, Bootstrap Responsive CSS Design