UP Post-Doctoral ManagementApplication

SoftServe Group

Project summary

- To mange all Post doctoral fellowships: From application to fellowship termination
- Centralize all data related to fellowships in a single data store
- Digitize & Centralize all processes involved with fellowships into a single web application
- Provide an environment which is: auditable, secure, useable, available and persistent

Tools used to develop

- Java EE Provides us with a sturdy platform whereby we can achieve scalability, security and performance
- MySQL Provides us with a proven RDBMS
- Apache Maven Provides an excellent project build and management environment for us
- Junit & Mockito Provides us with a solid unit testing framework
- Java Persistence API Provides us with a ORM
- Glassfish server 4
- NetBeans 8 Provides us with a easy-to-use IDE
- JSF & PrimeFaces 5 Provides a powerful UI framework and visually impactful component library
- JasperReports Reporting engine.

More on what we have done

- Persistence layer entities and DAOs
- Back-end EJBs for almost all use cases
- Front-ends for:
 - User login
 - User account management services
 - Audit Trail services
 - New application services
 - Application progress viewer
 - Referee Report services
 - Session management & user authentication
 - CV creation
 - On demand user account creation and activation
 - HOD approval service (Not yet test)
 - Dean endorsement service (Not yet tested)
 - Email notifications
 - Reporting Services
- Updated Unit tests for EJBs and Entities

What we have not yet completed

- Archival Front End
- Refined Archival backend features
- Client Requested System Changes
- Front end web page data validation
- Integration Testing

Challenges faced

- Getting the most out of Jasper and using it's resource files.
- Juggling other school work.
- Health concerns
- Implementing client requested changes without breaking code.
- Various frustrating bugs created by a misunderstanding of technologies.
- Lots of research

DEMO