## UP Post-Doctoral Management Application

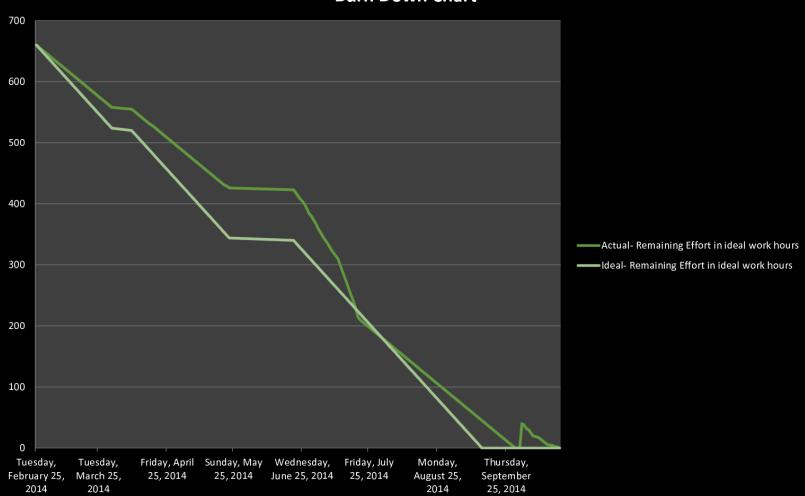
**SoftServe** Group

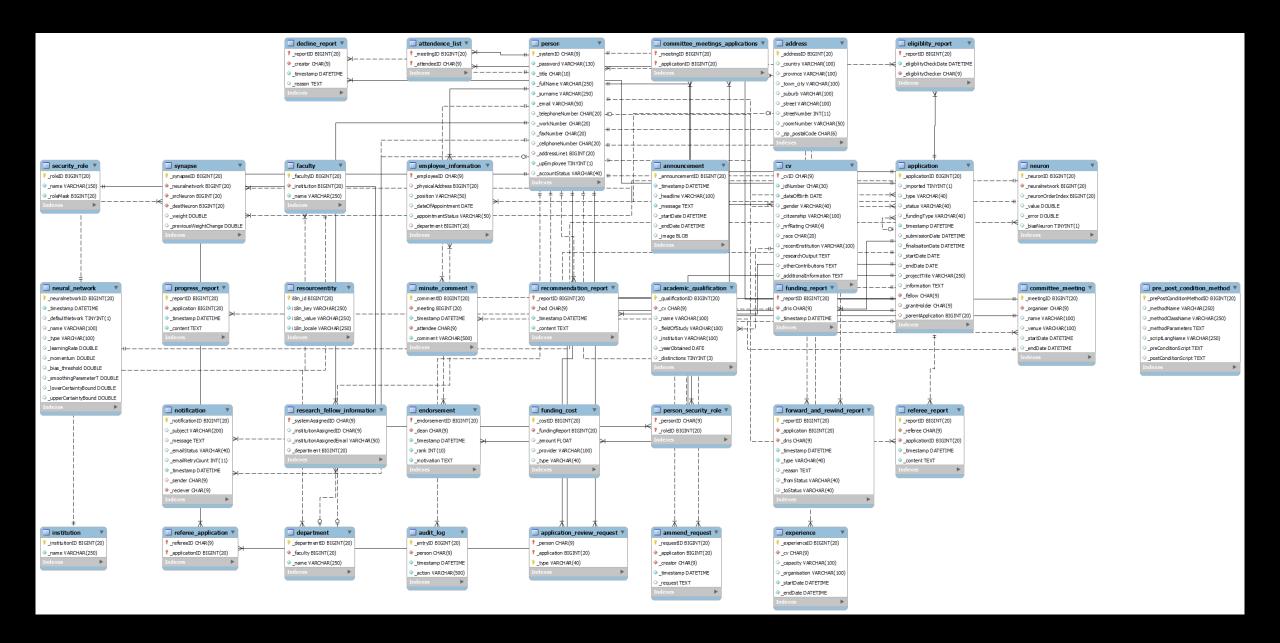
## WHAT IS A POST DOCTORAL FELLOW?

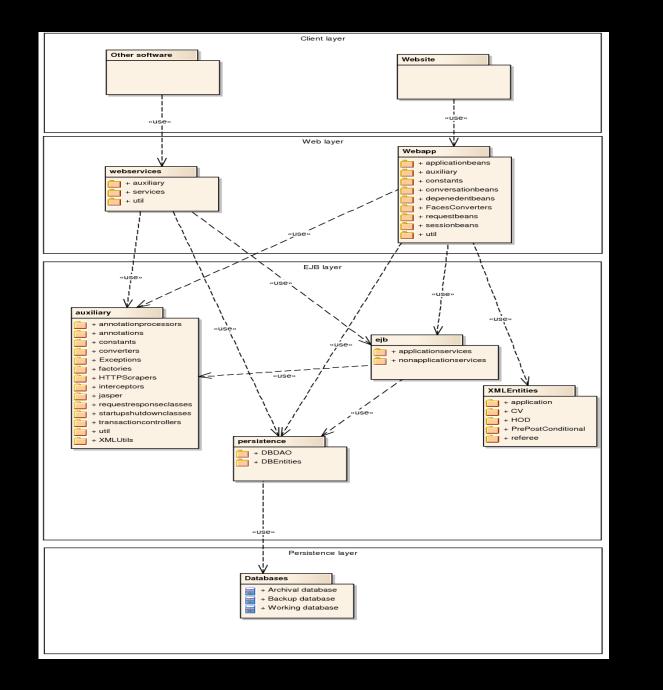
- A Post-Doctoral fellow is a person who conducts research after they
  have completed their PhD, with the aim of deepening their
  knowledge in a specific field.
- This is a growing field in Universities around South Africa.
- The University of Pretoria,
- UP, supports such research opportunities in order to increase the research output of UP itself. Post-Doctoral fellows who conduct their research at UP do so under the supervision of an appropriate academic staff member at the University and their research may be externally or internally funded.

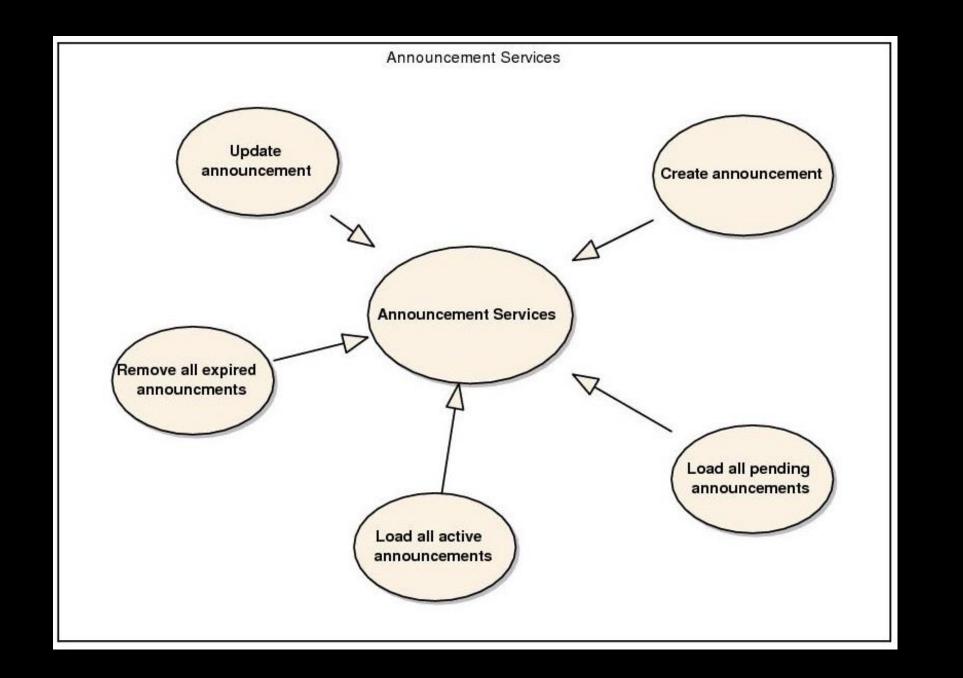
## BURN DOWN CHART

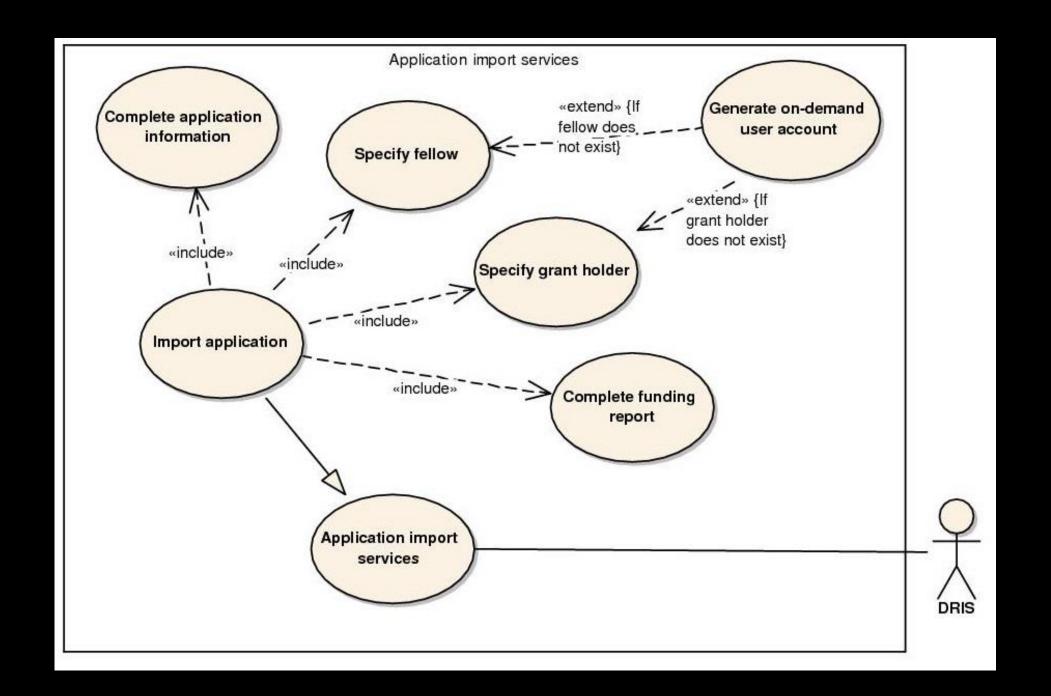
## **Burn Down Chart**

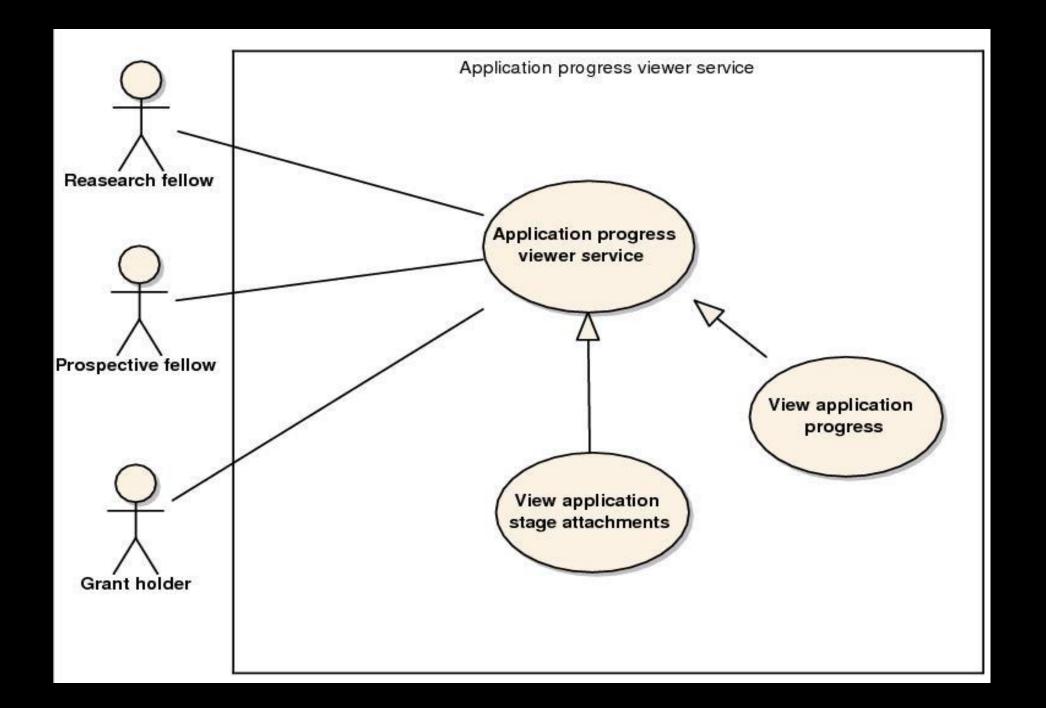


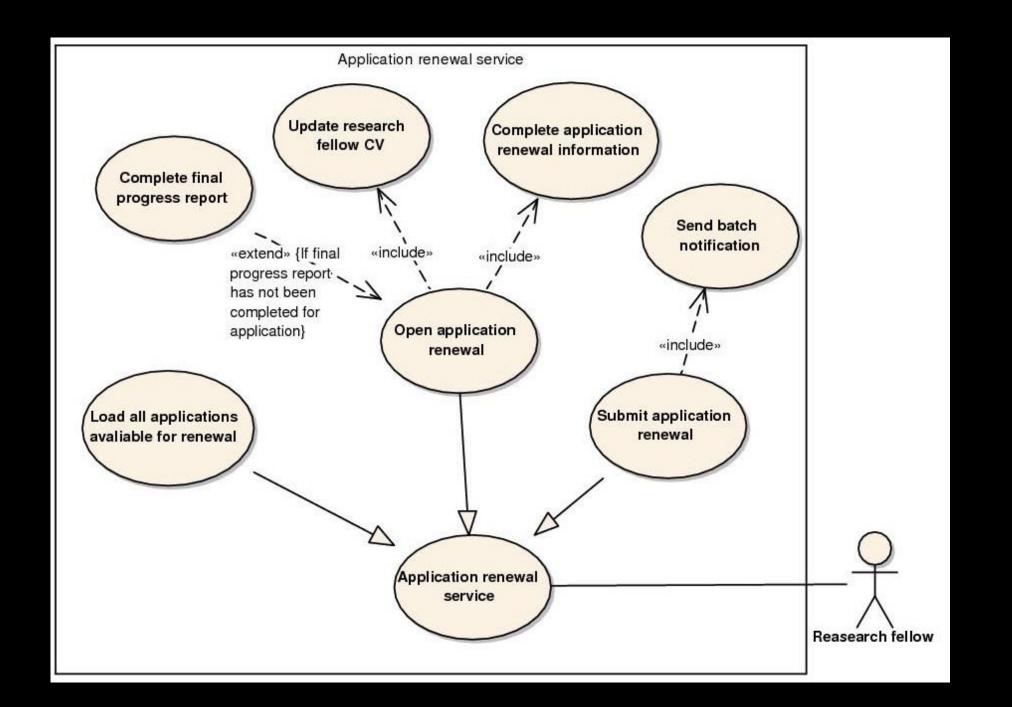


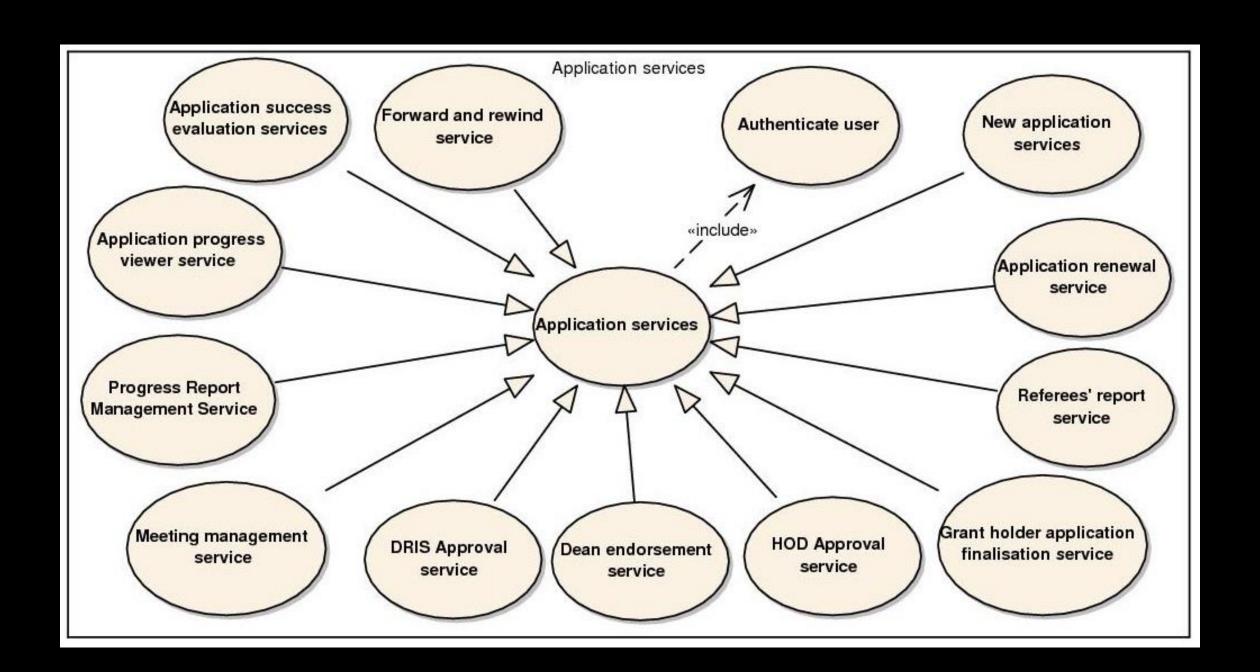


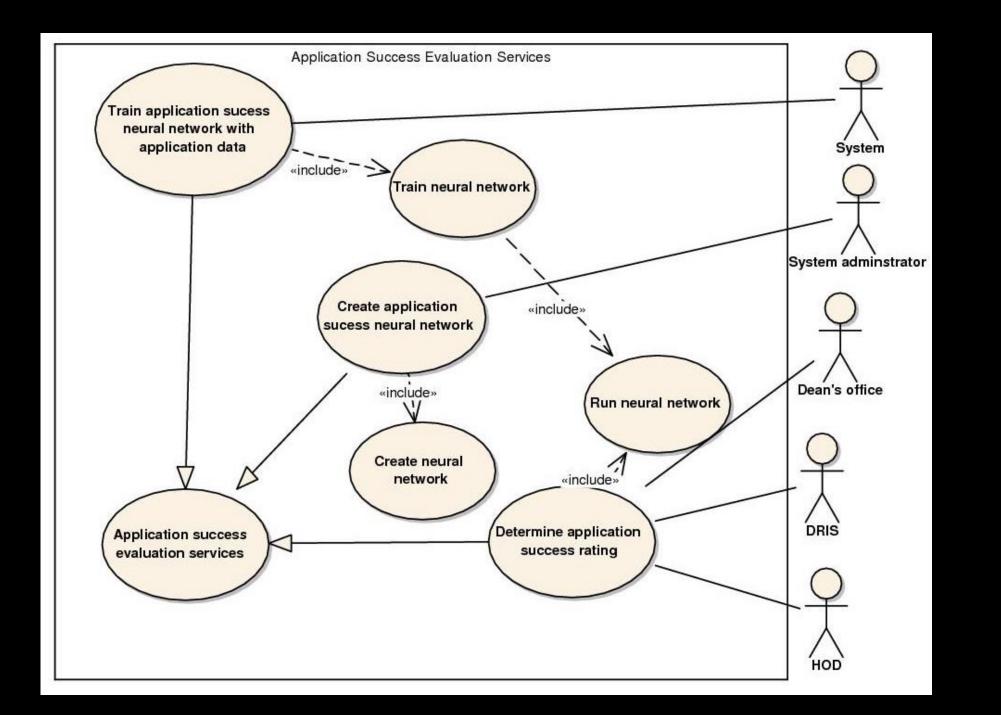


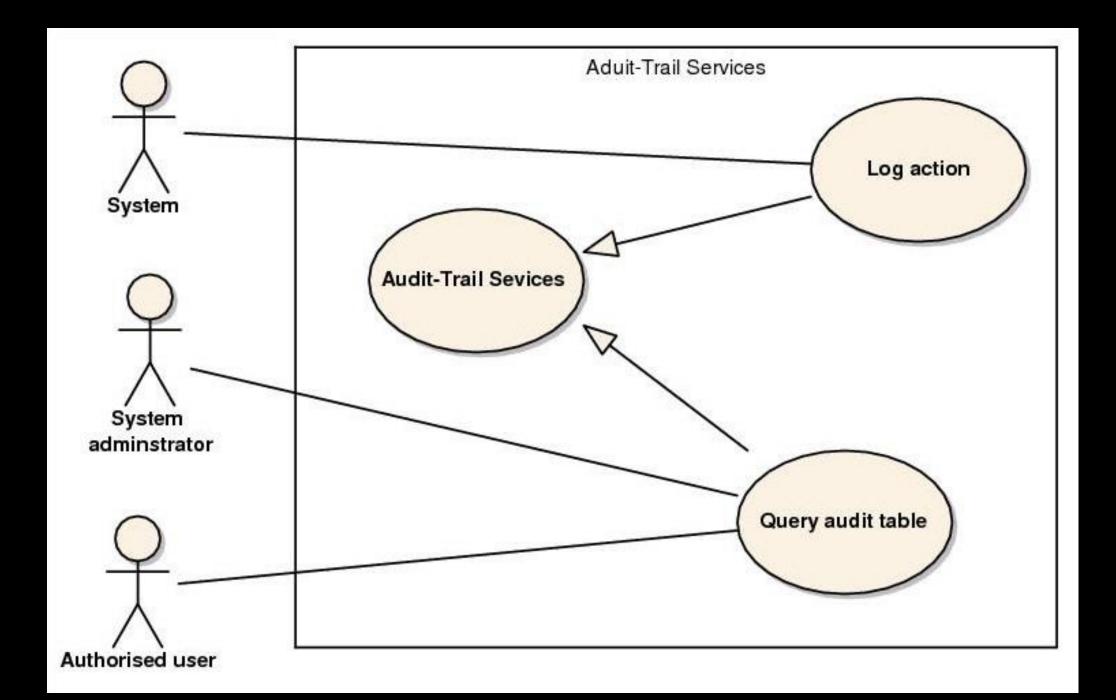


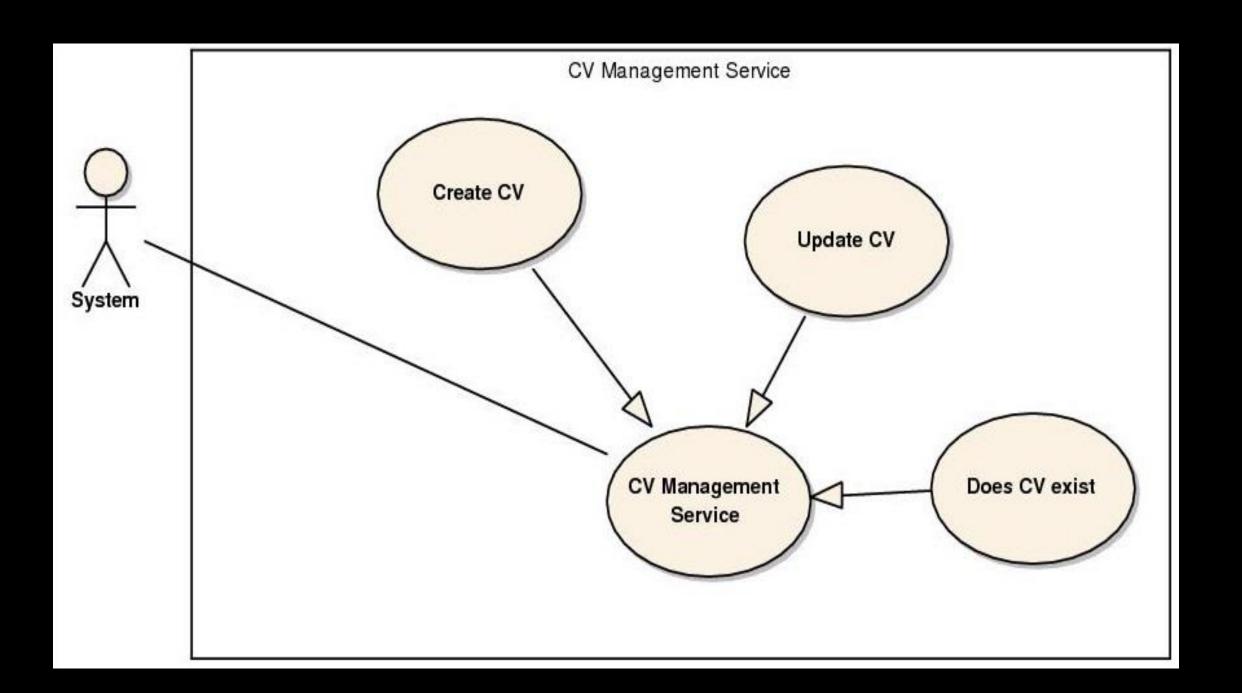


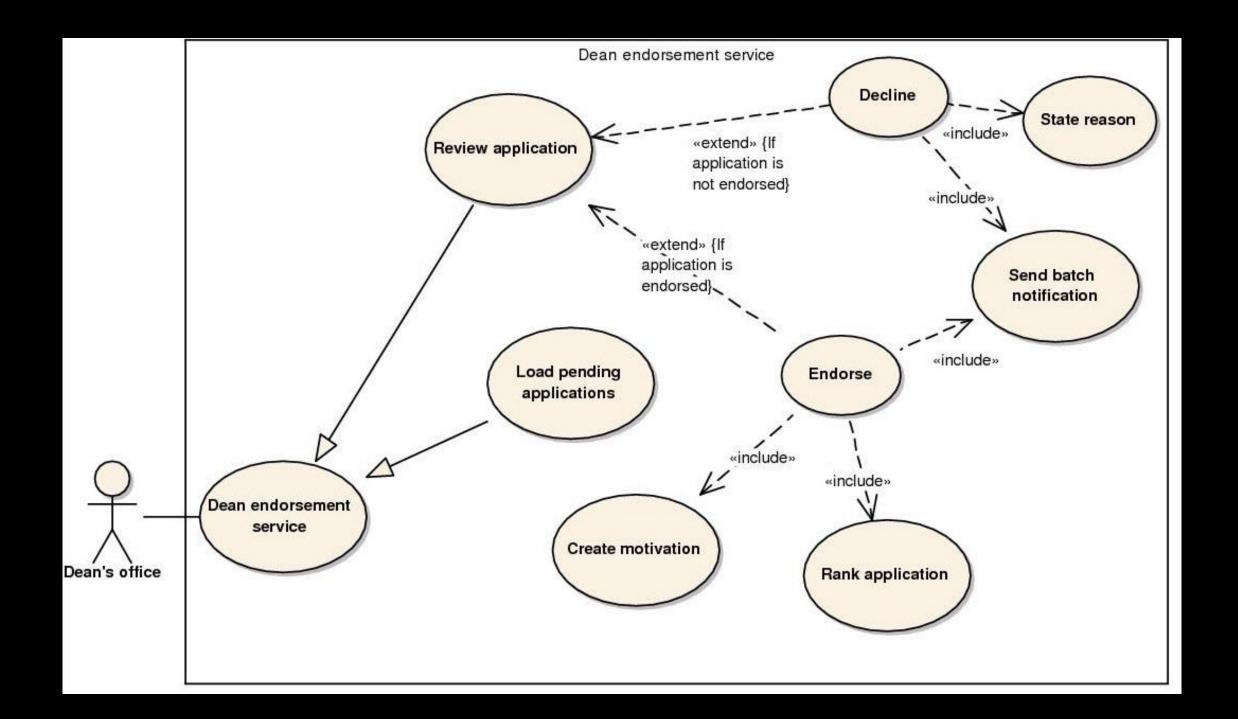


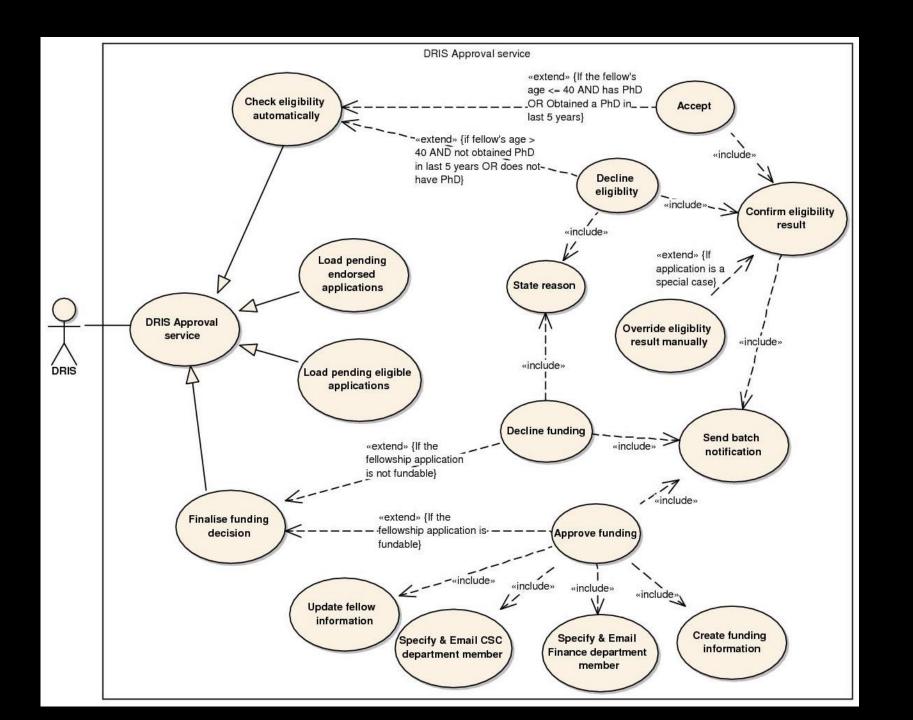


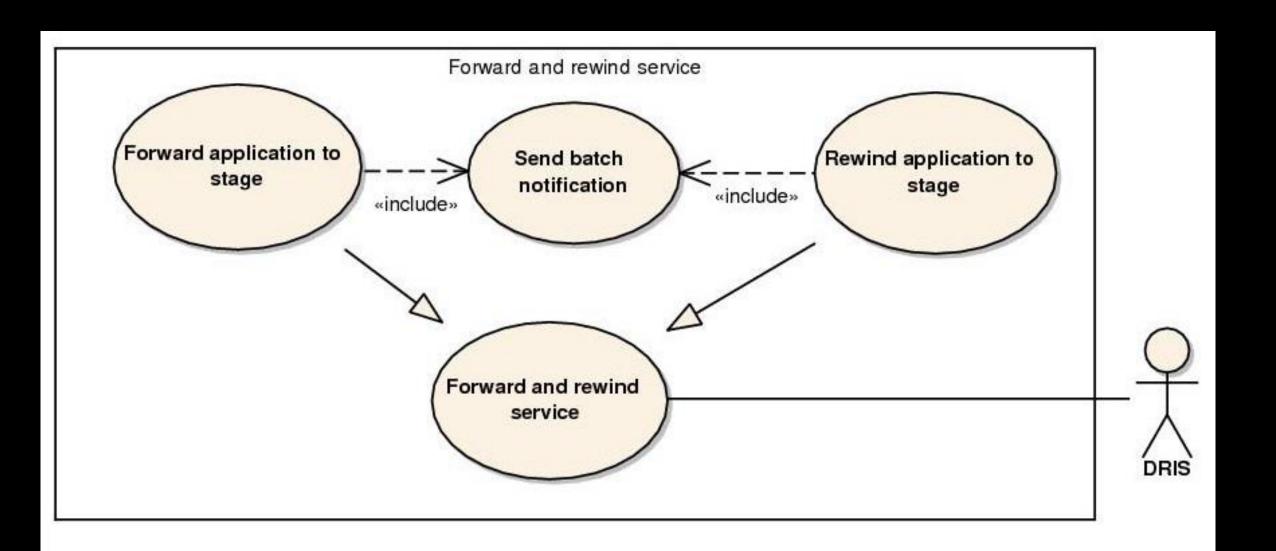


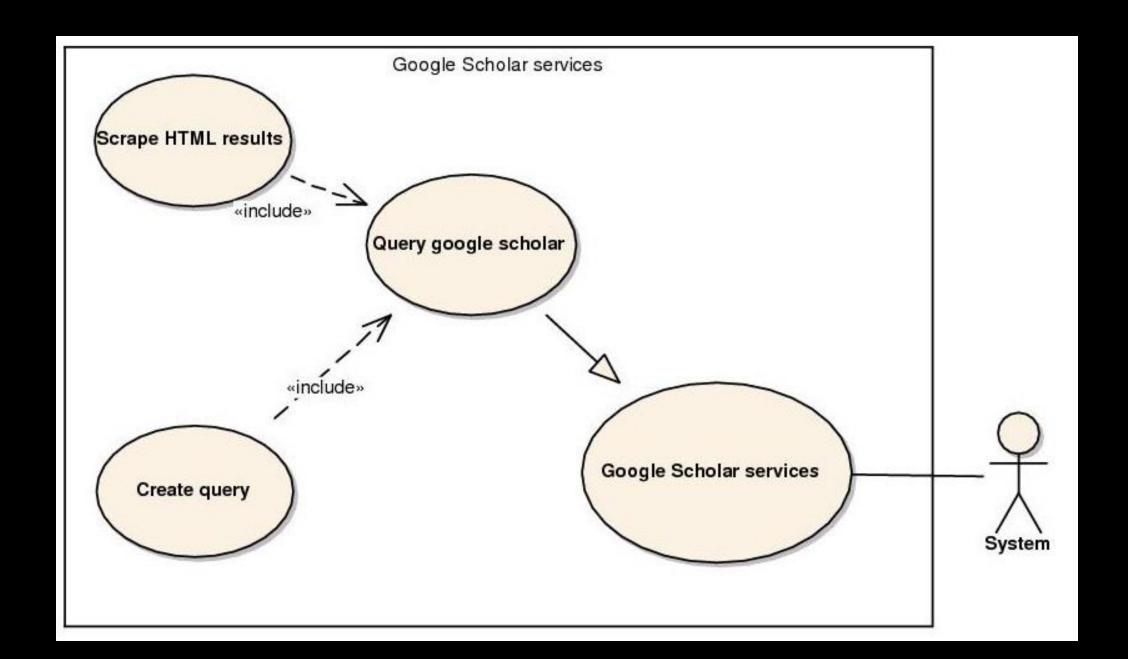


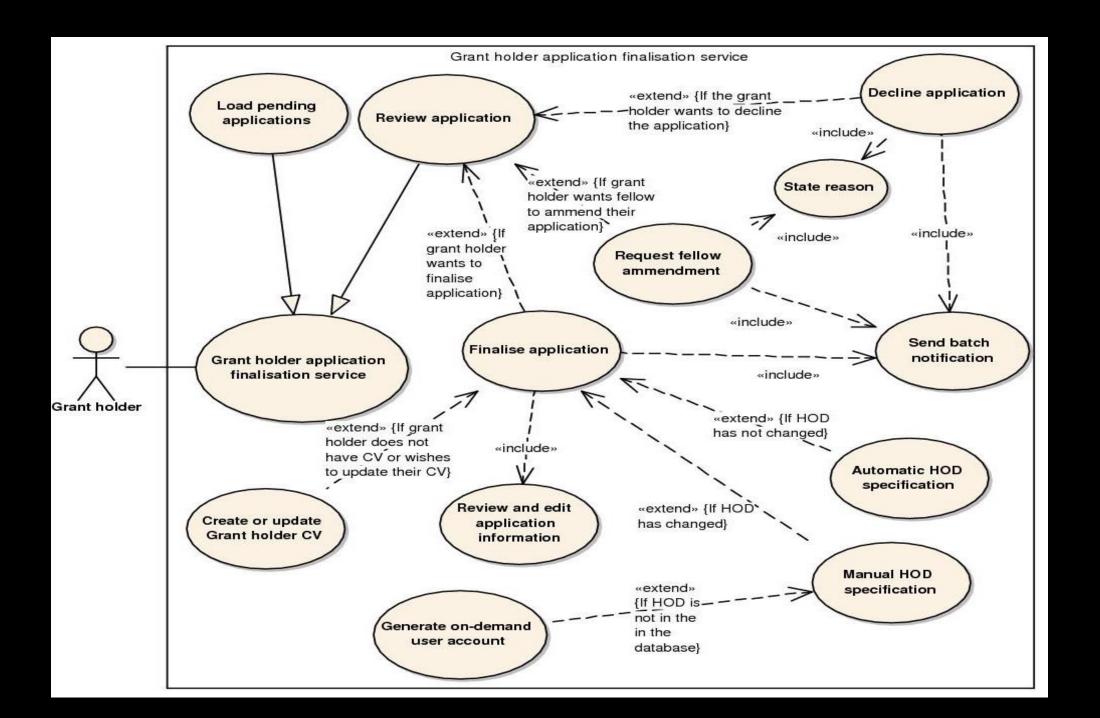


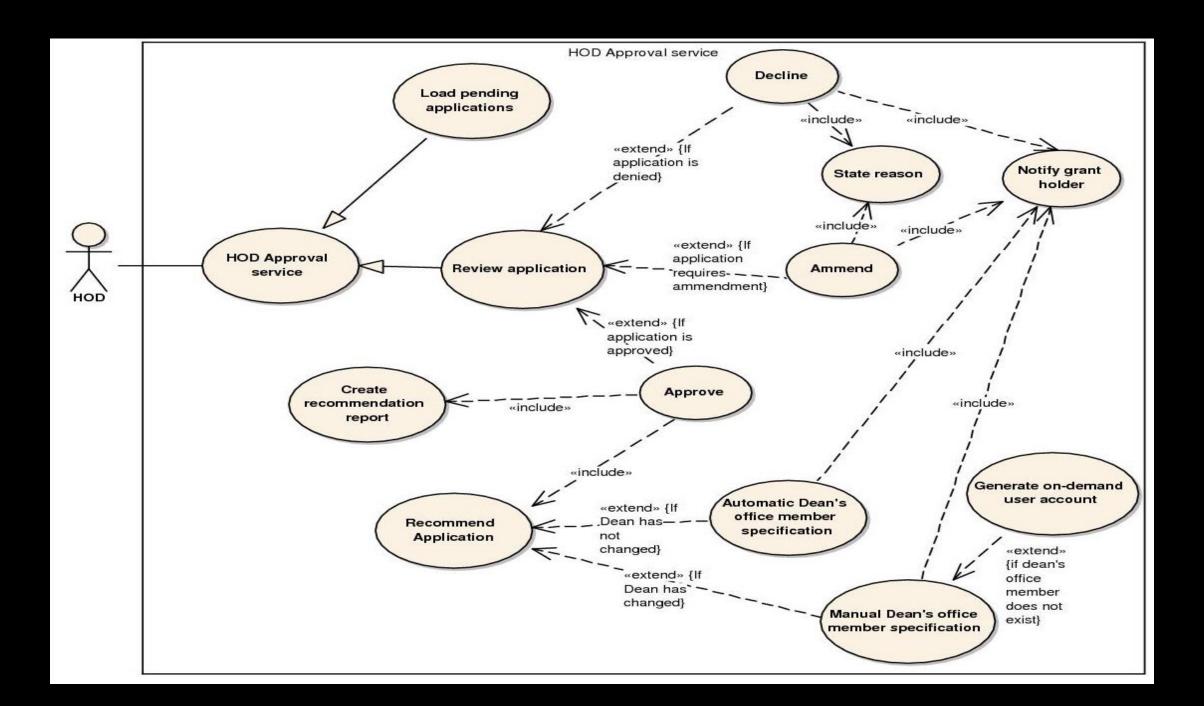


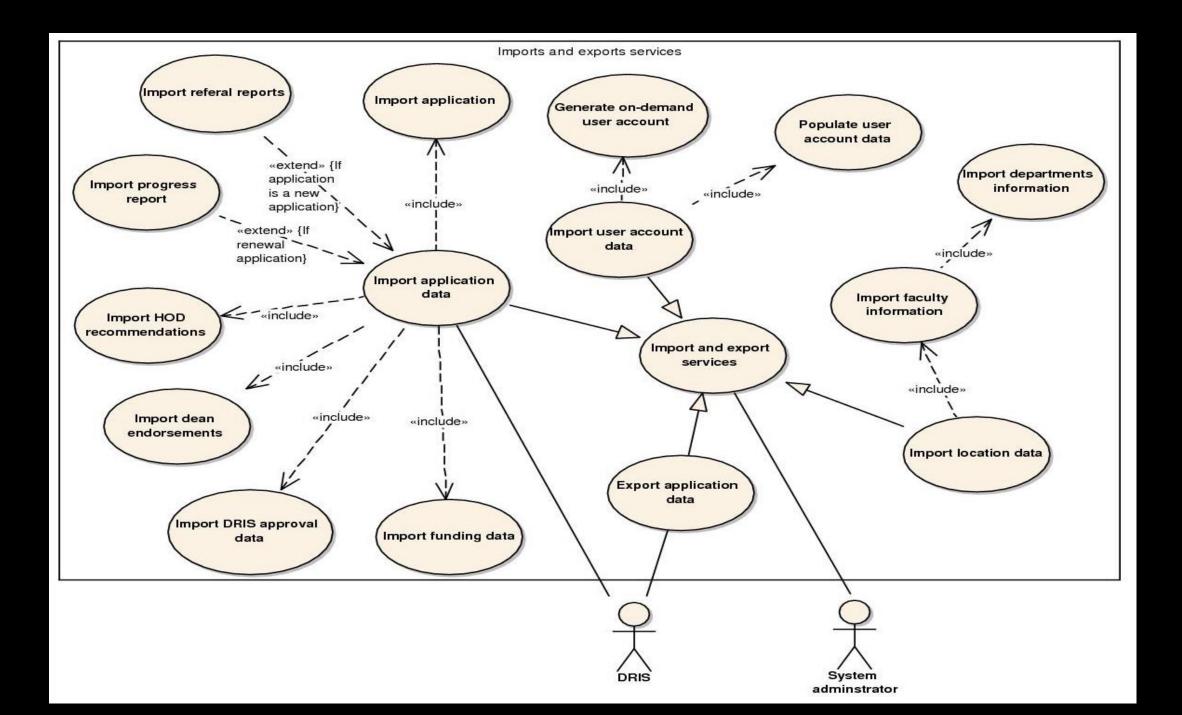


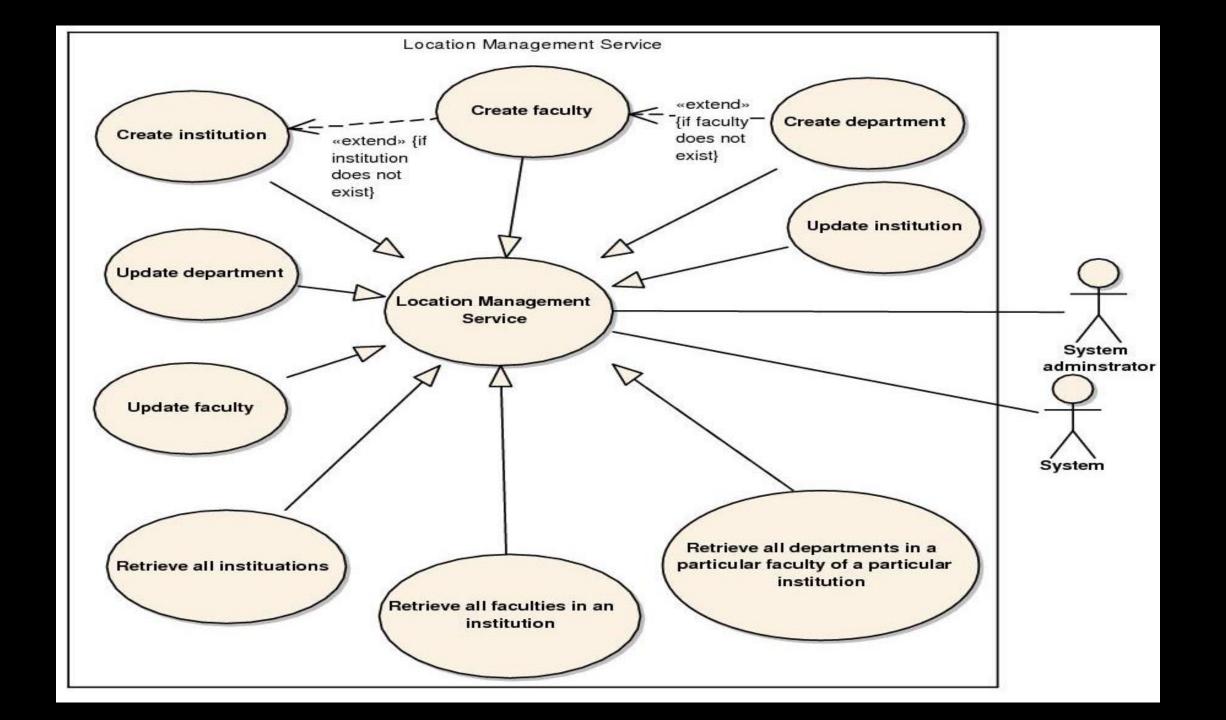


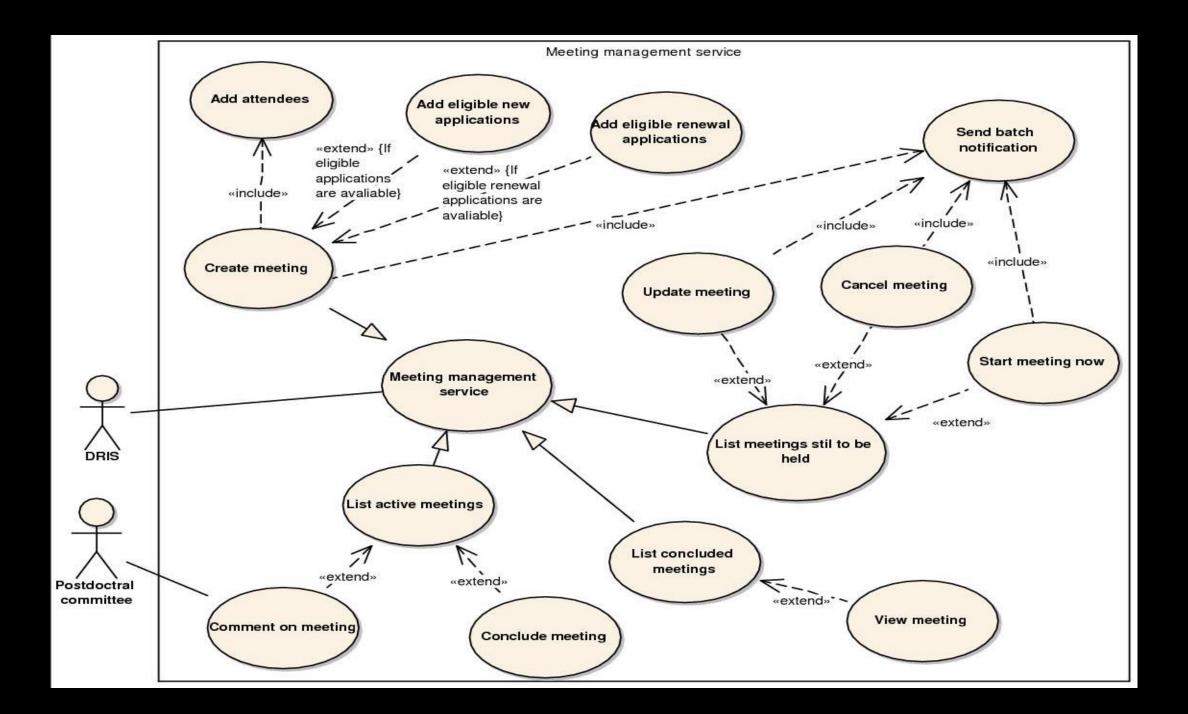


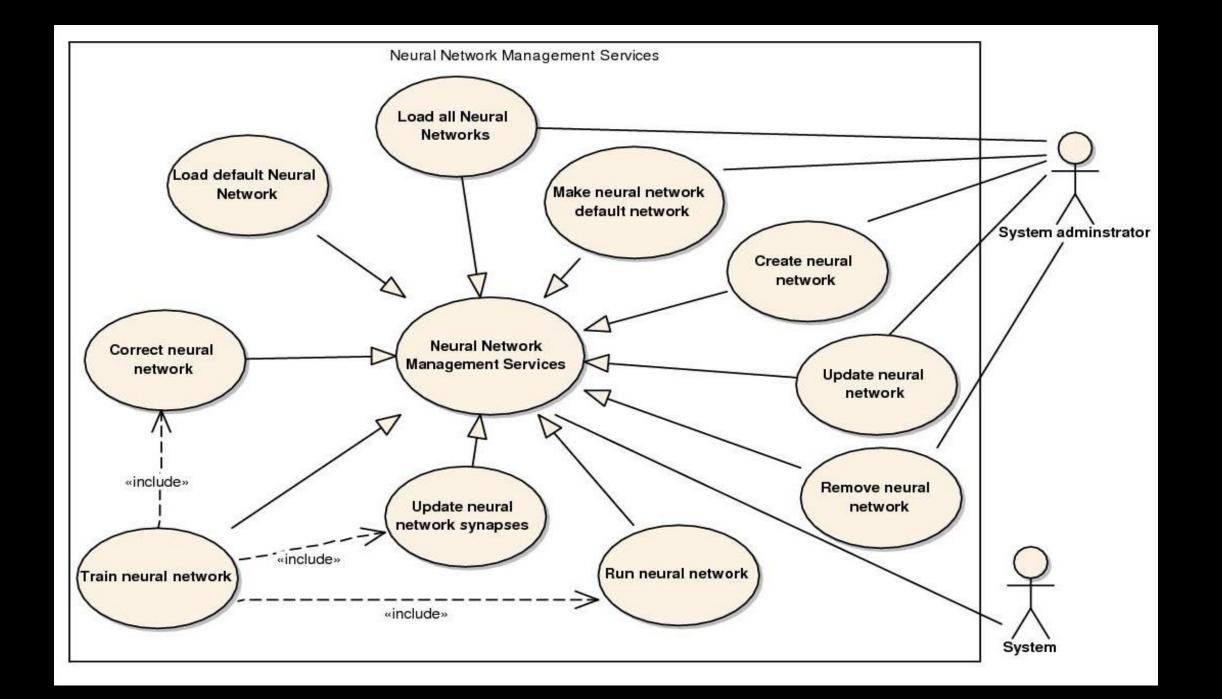


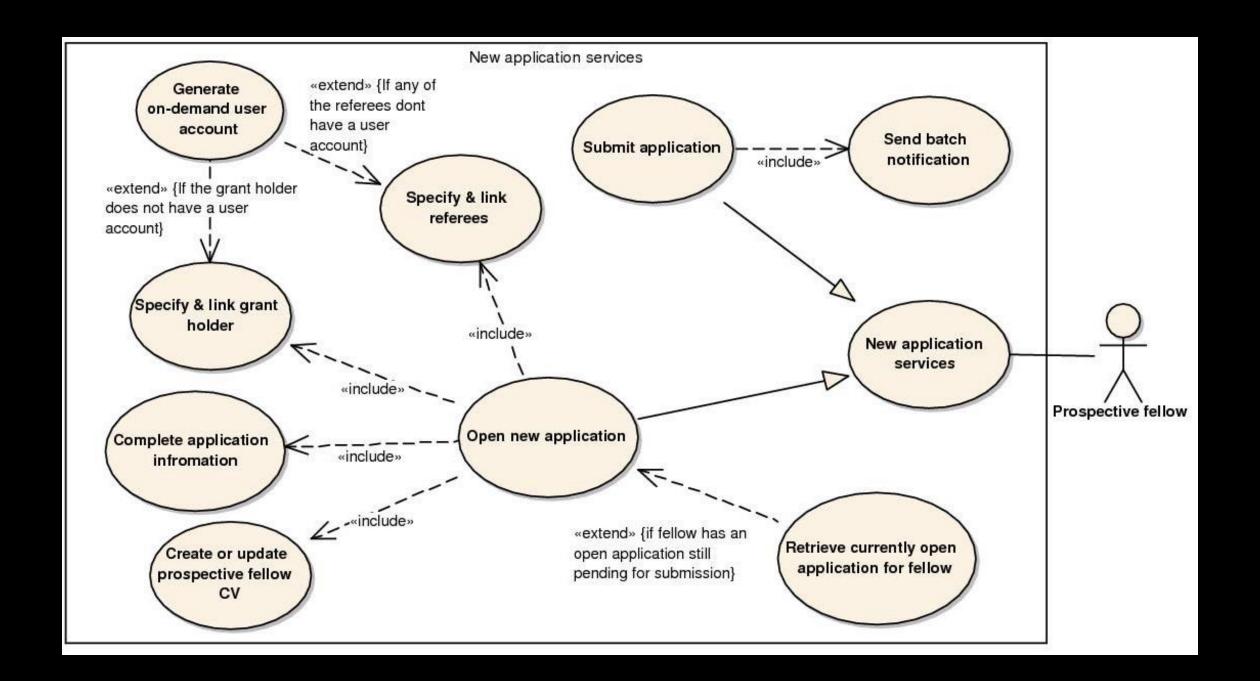


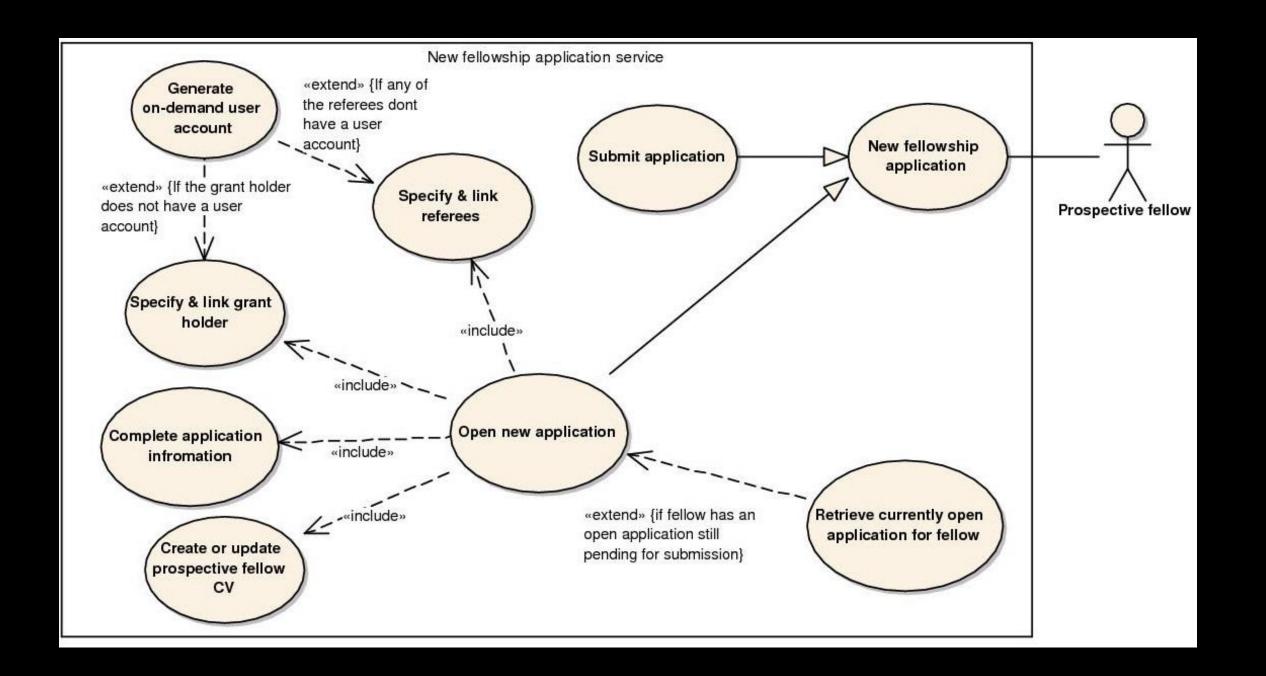


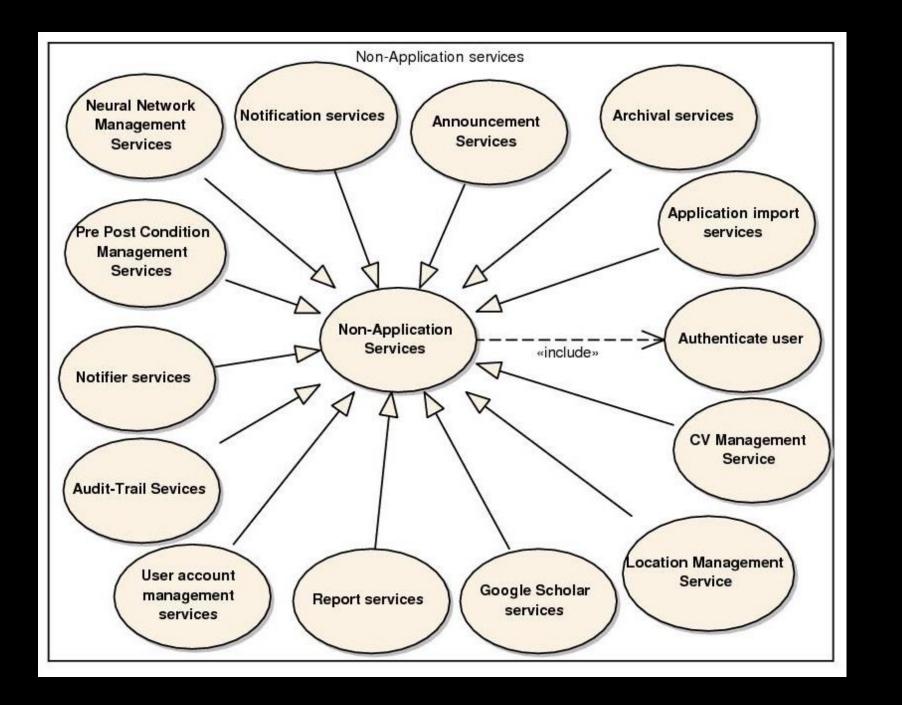


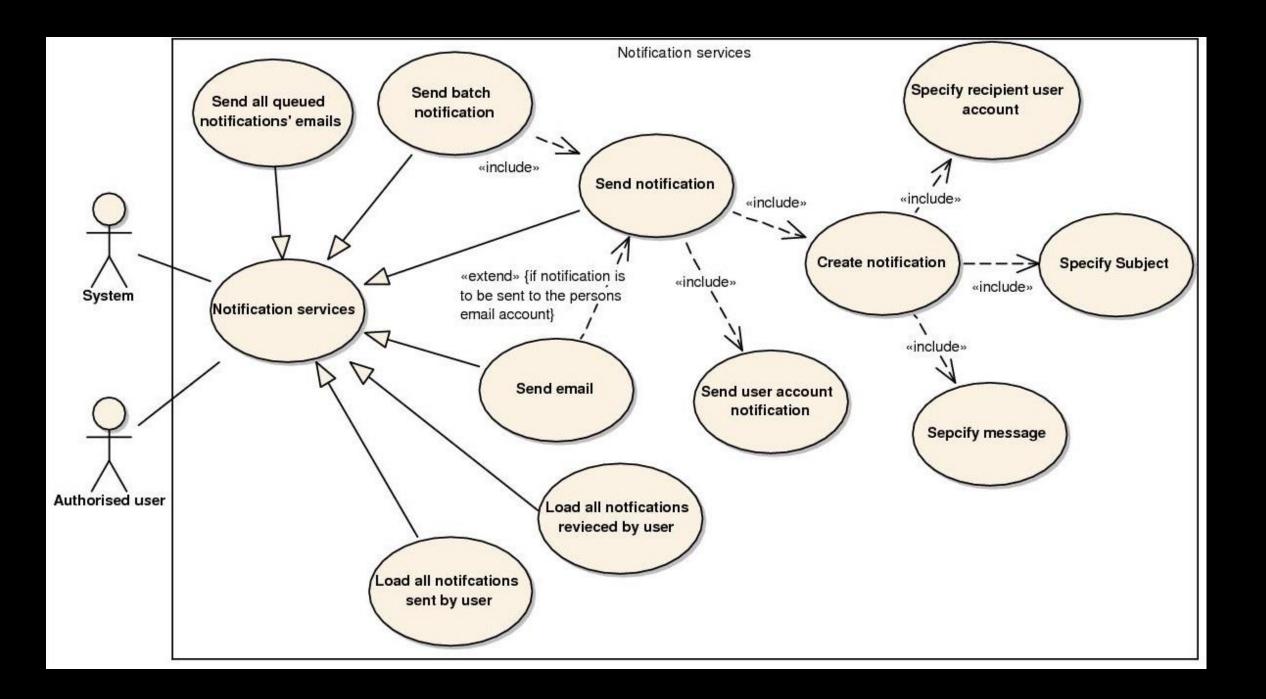


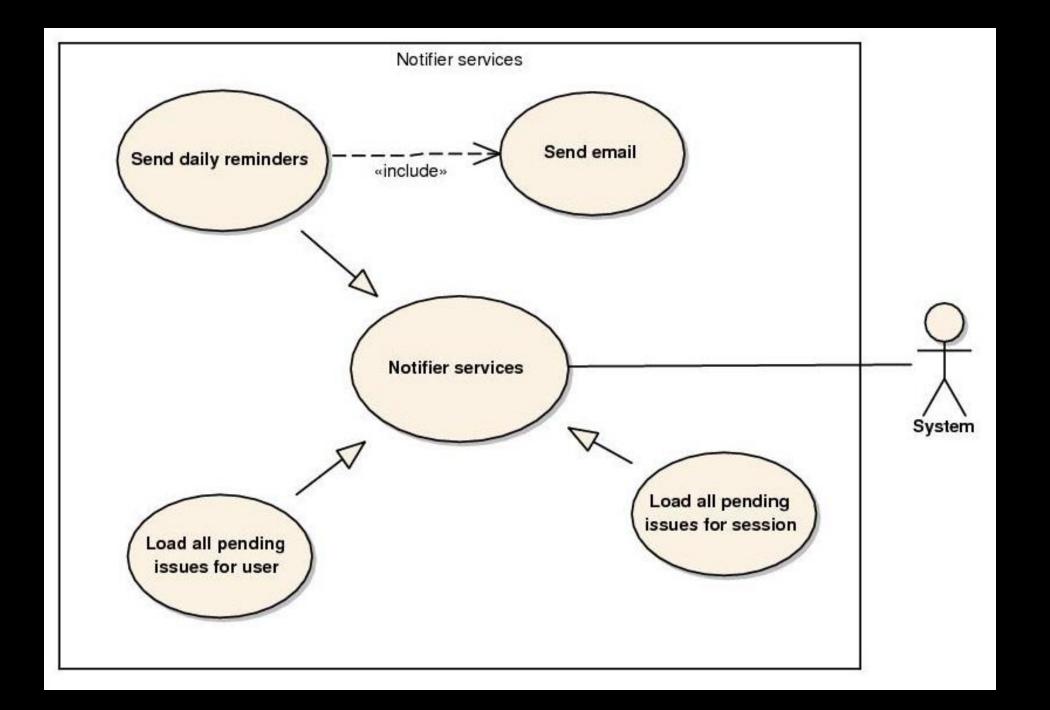


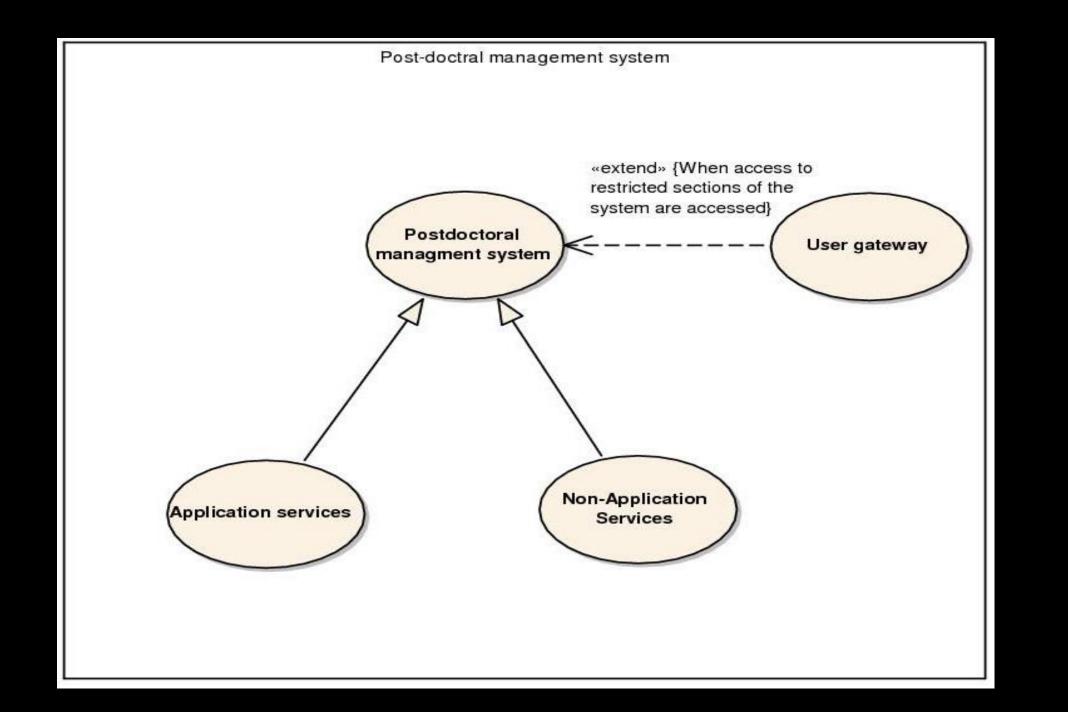


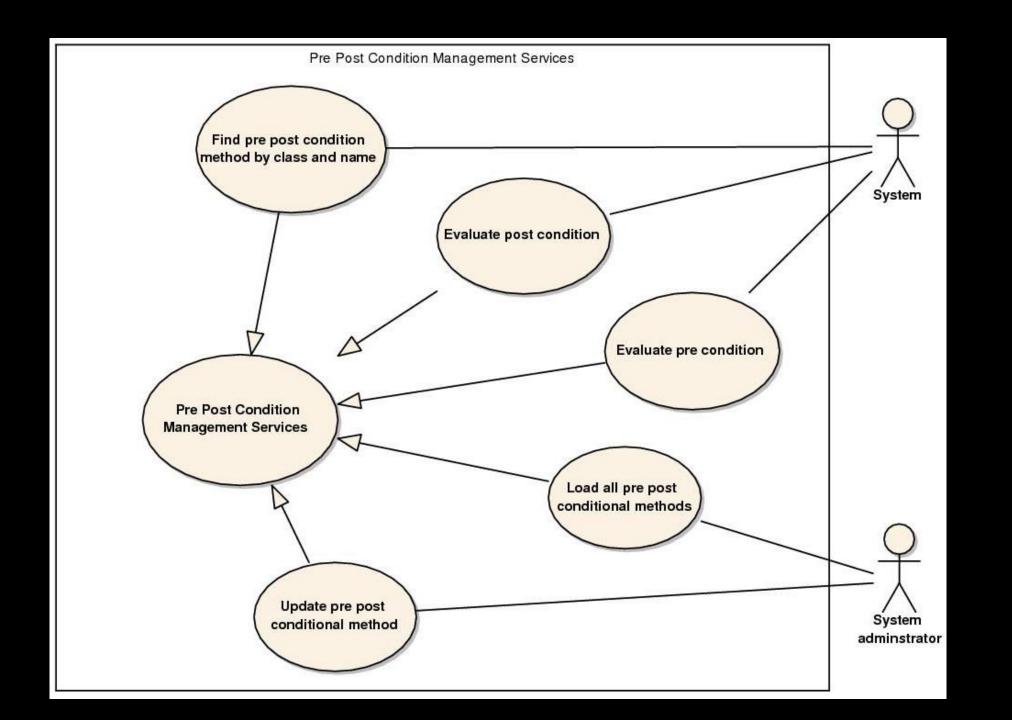


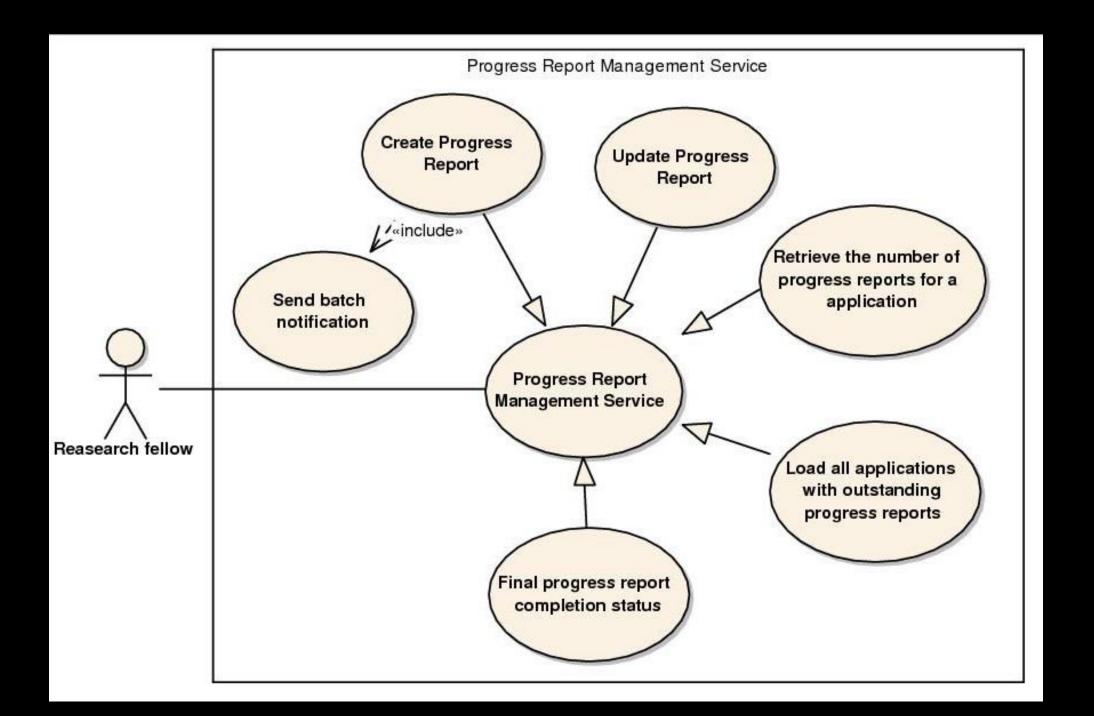


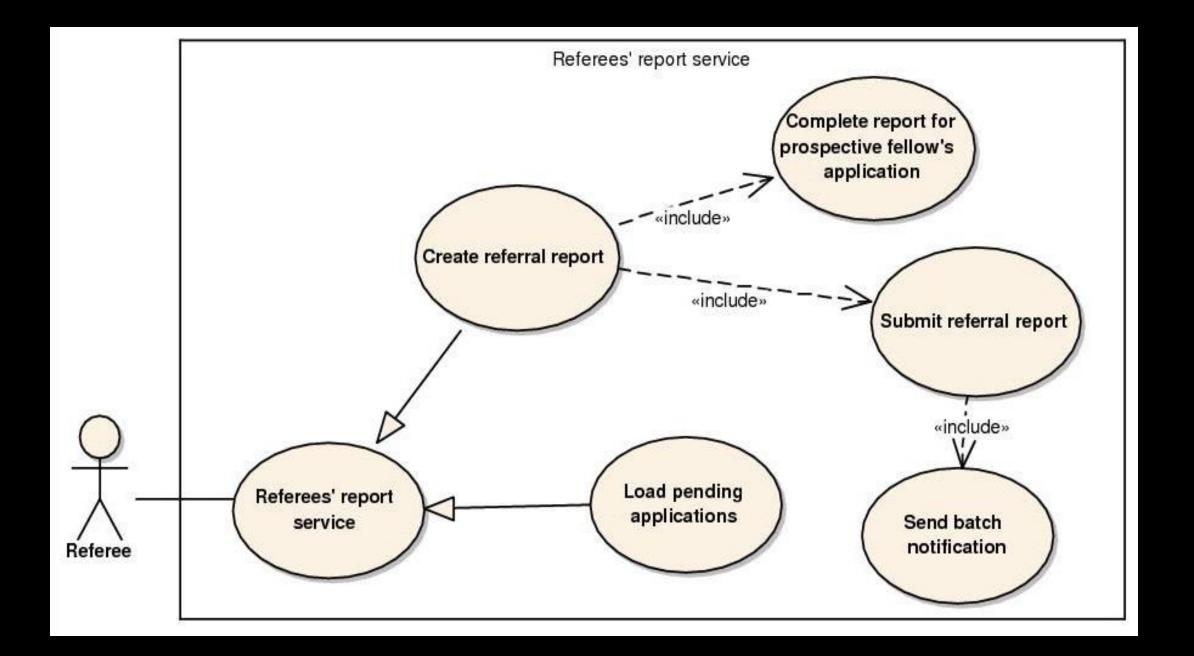


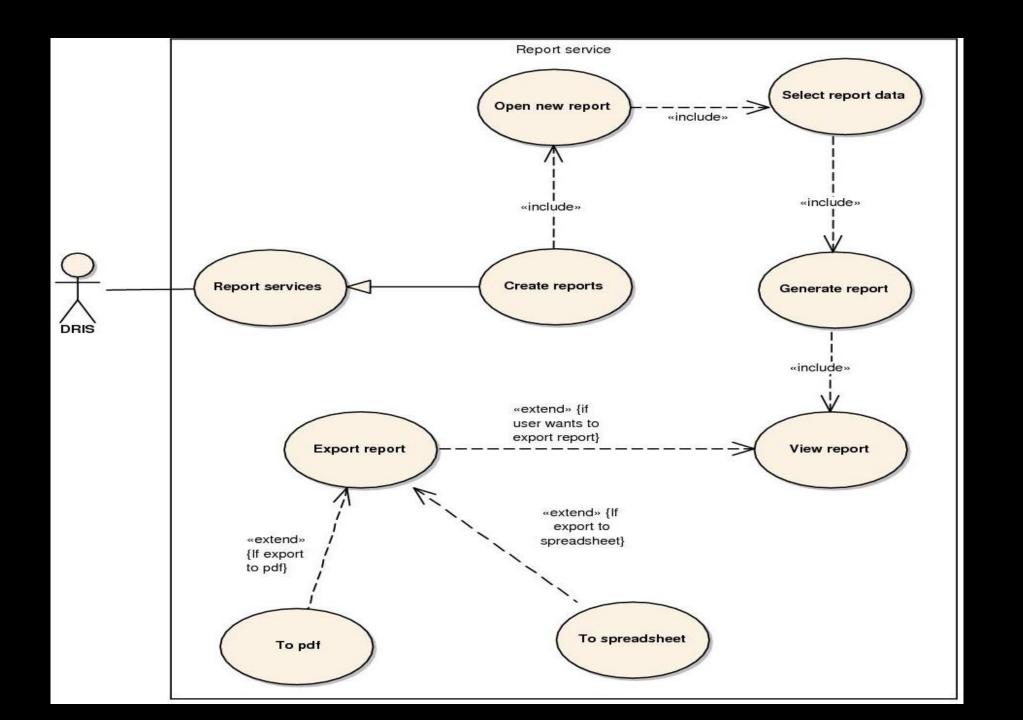


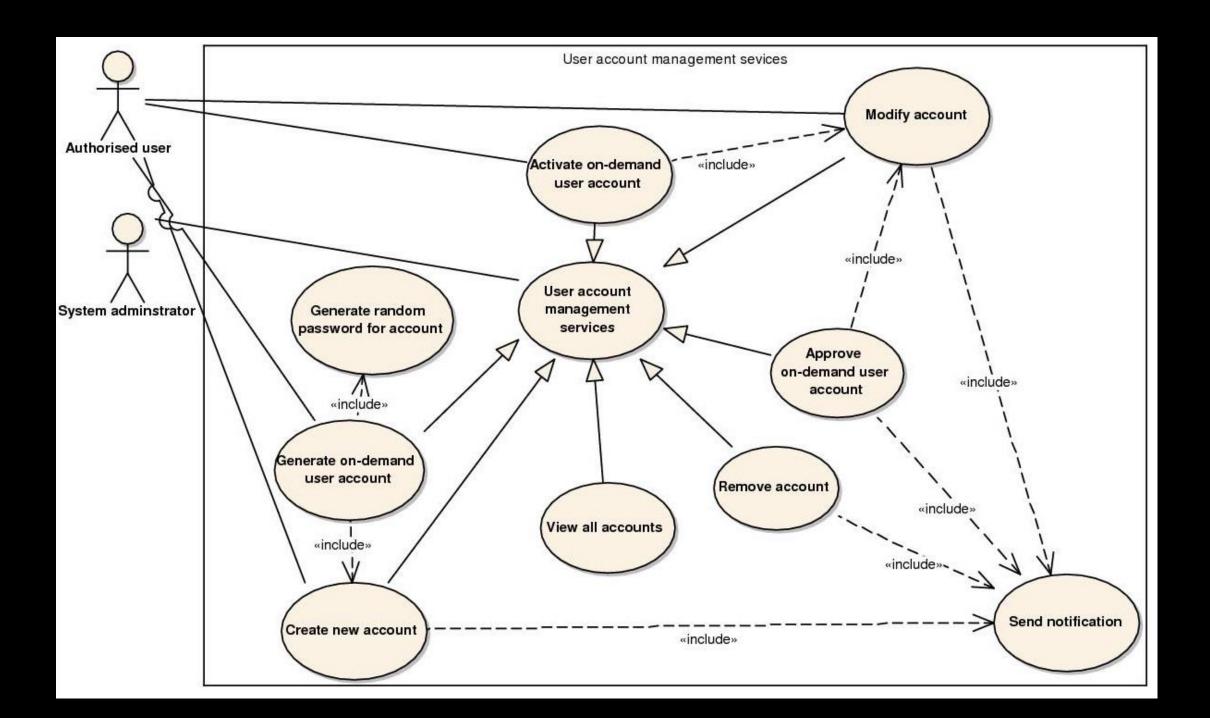


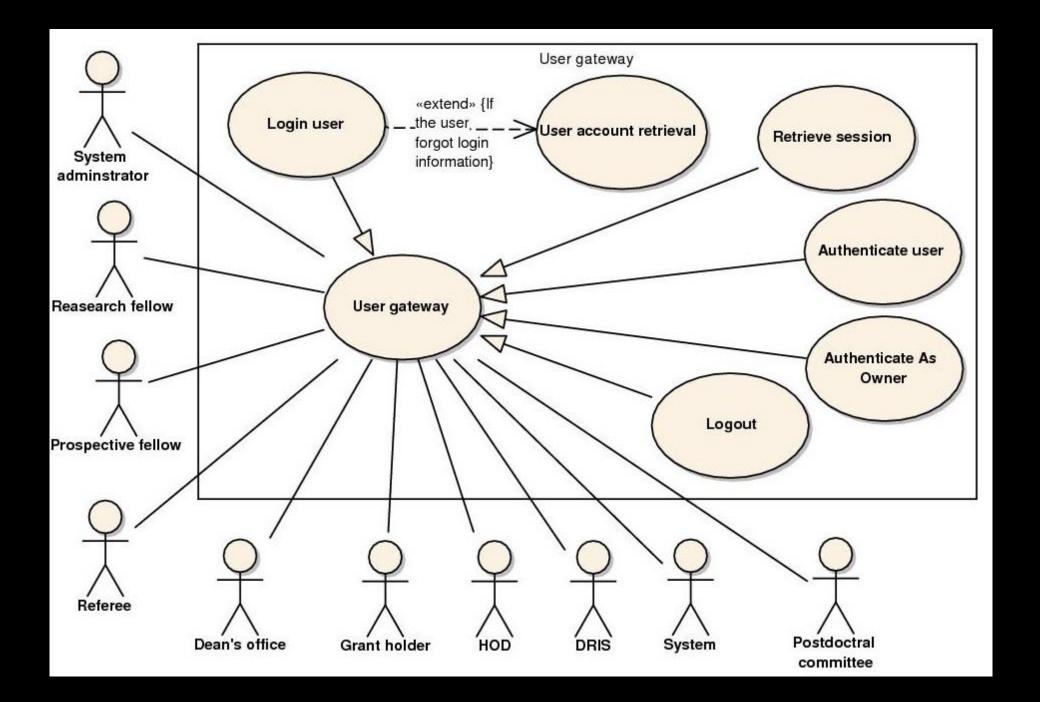












### CODE SAMPLE

```
@SecuredMethod(AllowedSecurityRoles = {com.softserve.auxiliary.constants.PersistenceConstants.SECURITY
@AuditableMethod
@Override
public void createAnnouncement (Session session, Announcement announcement) throws Exception
   TransactionController transactionController = getTransactionController();
    transactionController.StartTransaction();
    try
        DAOFactory dAOFactory = transactionController.getDAOFactoryForTransaction();
        announcement.setTimestamp(new Date());
        dAOFactory.createAnnouncementDAO().create(announcement);
        transactionController.CommitTransaction();
    catch (Exception ex)
        transactionController.RollbackTransaction();
        throw ex:
    finally
        transactionController.CloseEntityManagerForTransaction();
```

# USABILITY TESTS





- Learning Java EE and JSF for the first time
- Research on Java EE from the Internet and Literature available

- Getting familiar with various new technologies and frameworks. No clear cut online guides.
- Research on Java EE from the Internet and Literature available

- Found that some uses cases had to be added, modified and removed due to not previously thought scenarios.
- Refining the uses case after consultation with the client

- Holidays
- Better time management

- Various frustrating bugs created by a misunderstanding of technologies.
- Debugging and research into the technologies

- Lots of research
- More Research

- No API for Google scholar
- Created our own API using HTML Scrapping

- Misunderstandings with regards to JPA
- Research into JPA and it's best usage

- Health concerns
- Team members visited medical professionals

- Looking for possible awe factors
- Added Neural Networks and Google Scholar API

- XML validation and maintainability of system
- Research into ways to improving maintainability

- Getting the most out of Jasper and using it's resource files.
- Switched to Dynamic Jasper, an extension of Jasper.

- Juggling other school work.
- Better time management and a few all nighter's

- Implementing client requested changes without breaking code.
- Numerous Code refactoring, as well as changes to the User Interfaces

- Using group member's skills to the best of their ability
- Finding out their strengths and allowing them to work on areas related to their strengths

- Finding a server for the client to host the system
- Helping the client look at alternatives and making a proposal for it.

- Finding funds to pay for all the printing.
- Hopefully by winning a few prizes to help cover the costs

# BENEFITS OF THE SYSTEM

- Provides a centralised location where all the Post Doctoral Information is held
- Removes the need for a paper based system.
- It can operate on any Web Browser (mobile or computer or tablet).
- Designed to be similar to the current UP system.