



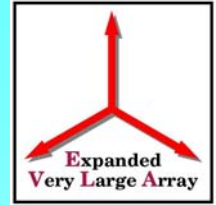
EVLA Data Processing PDR

Proposal Handling

Honglin Ye, NRAO



Project Description

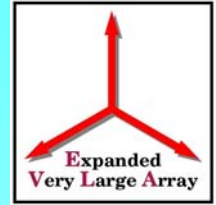


Handle proposals from submission to time allocation

- Major functional requirements:
 - Submit proposal for using NRAO Telescopes
 - Select referee, Notify referee
 - Submit referee form
 - Prioritize proposal
 - Allocate time
 - Notify proposer
 - Submit observe script



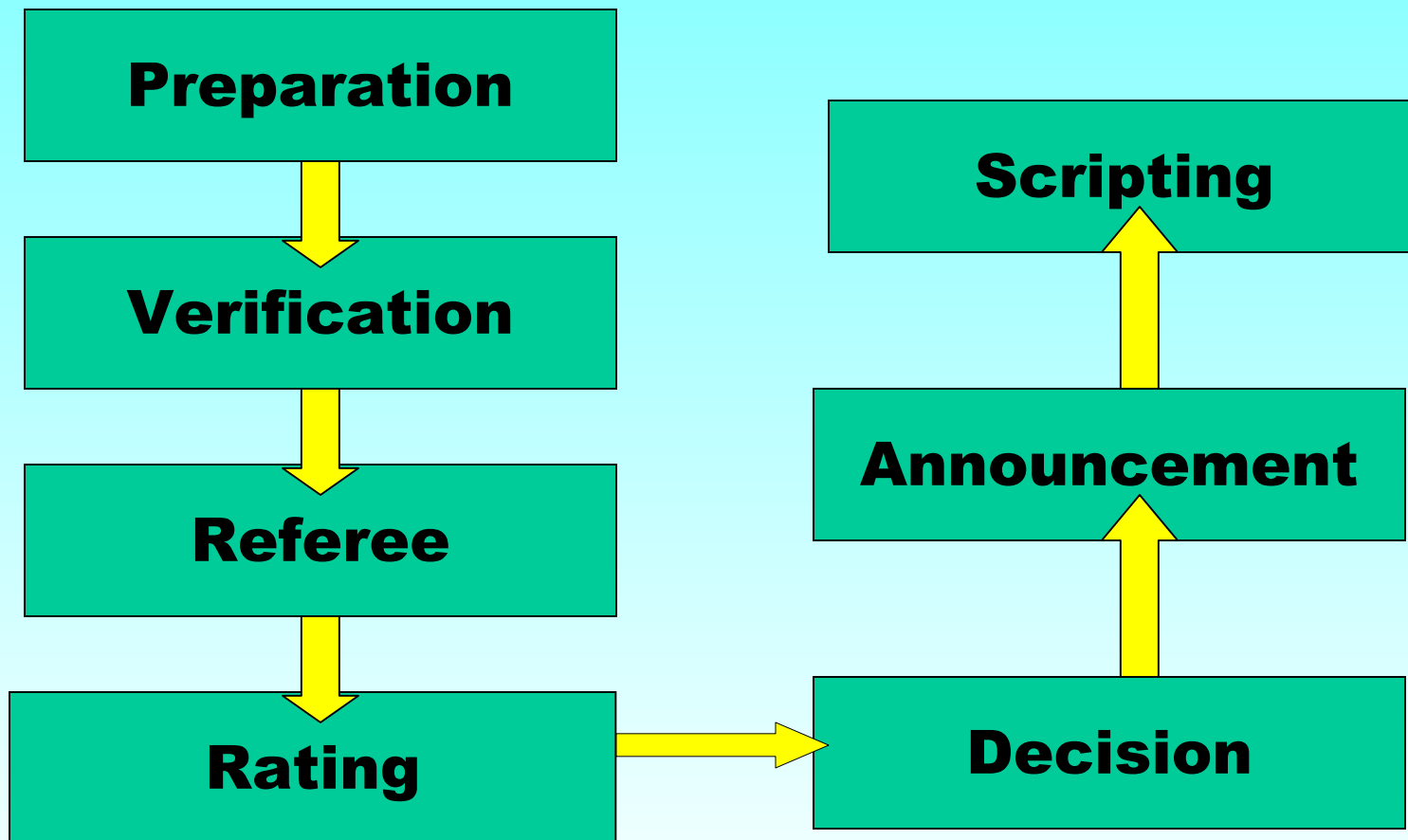
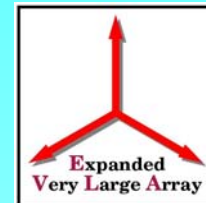
System Users



- Proposer
 - submit proposal to use NRAO telescopes
- Referee
 - evaluate proposal
- Staff Scientist
 - oversee proposal management, control scientific aspect
- System Administrator
 - assist to staff scientist, control business aspect

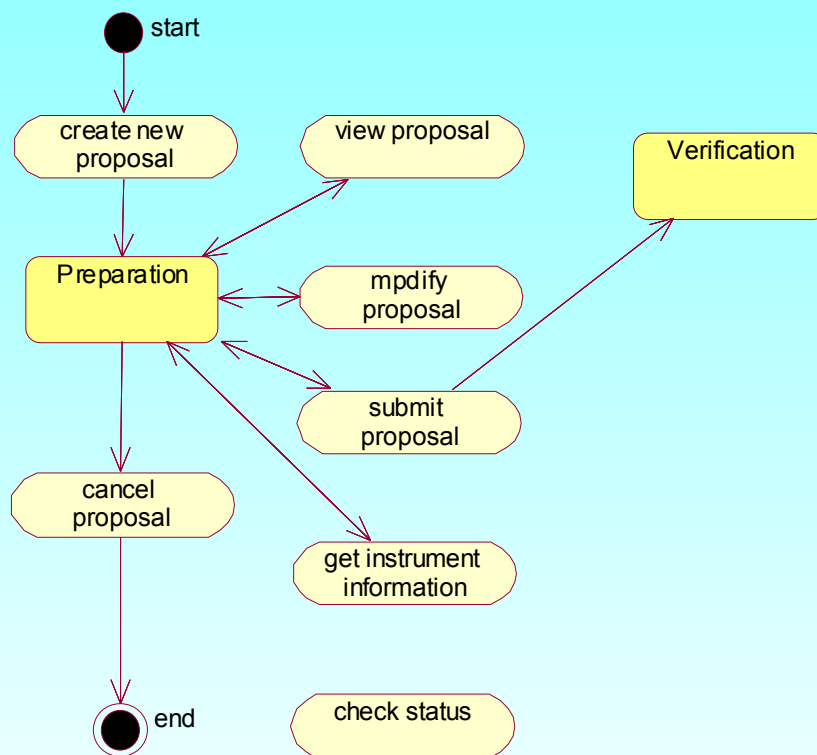
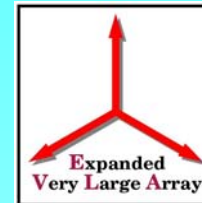


Operational Model



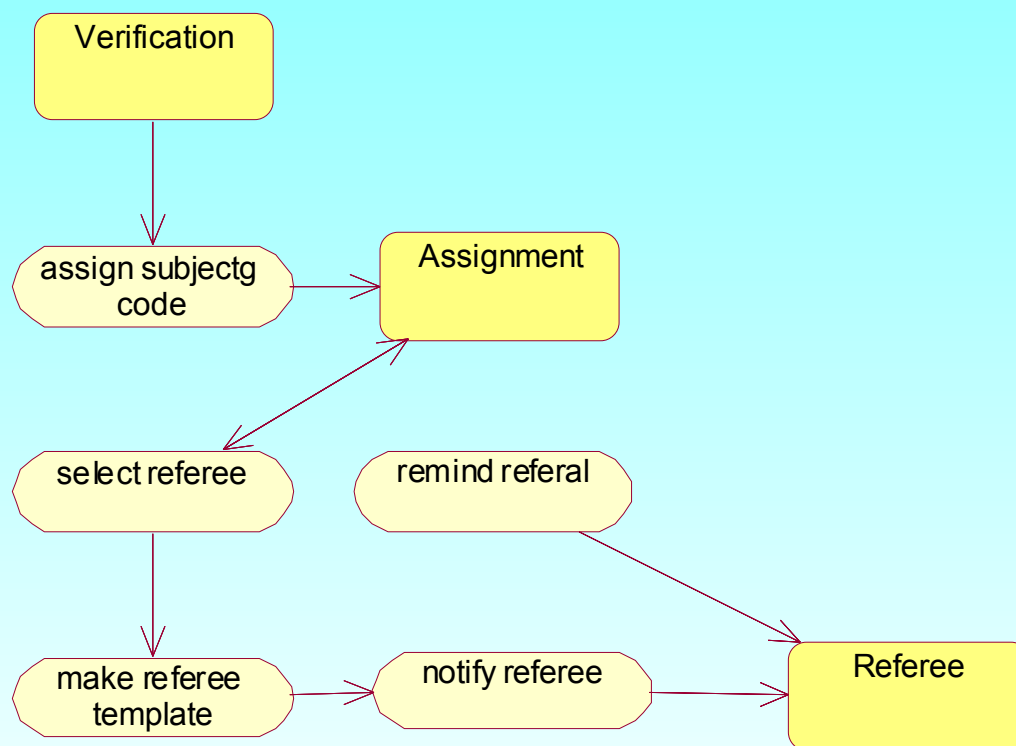
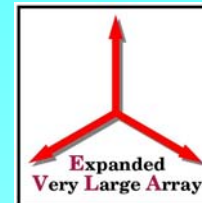


Preparation



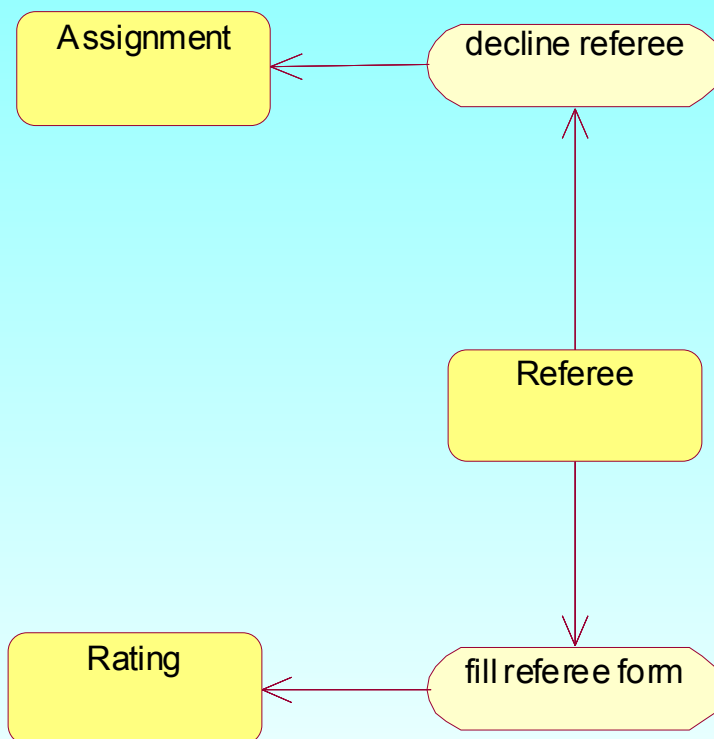
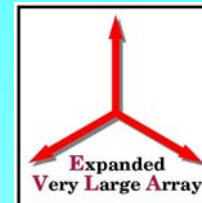


Verification



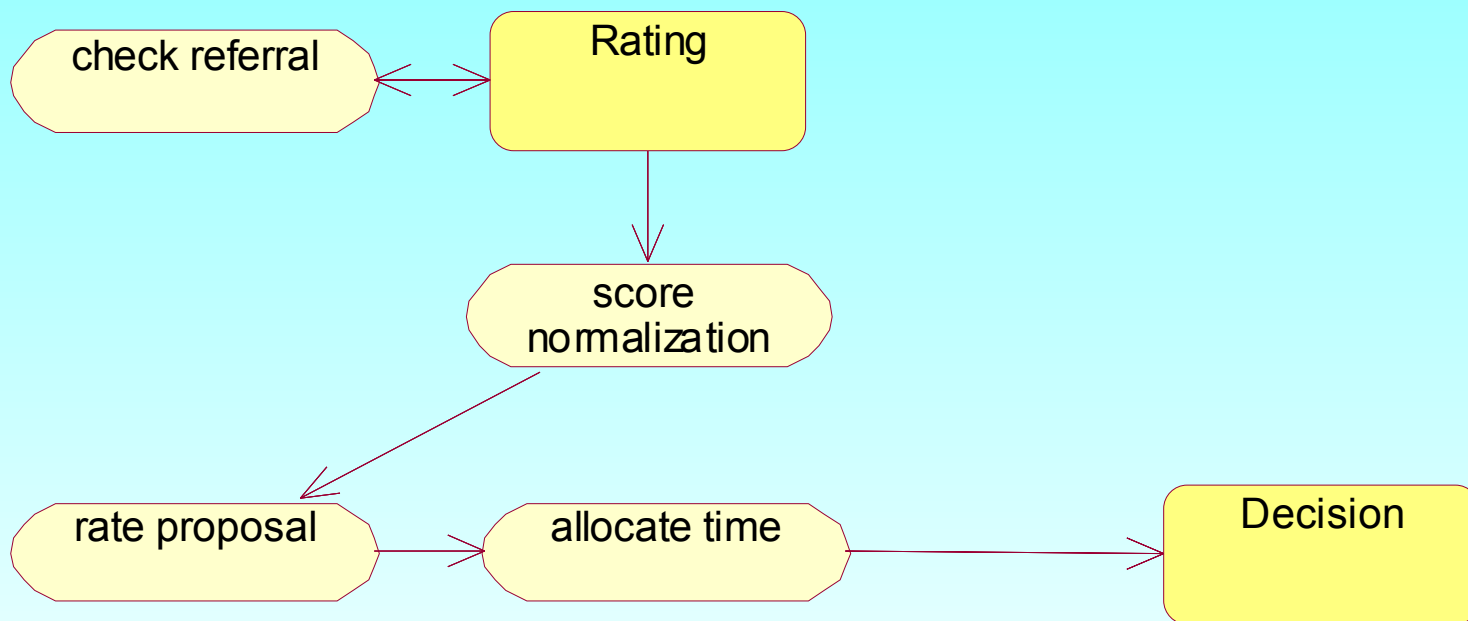
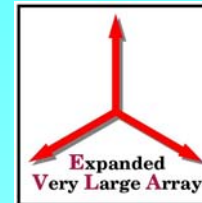


Referee



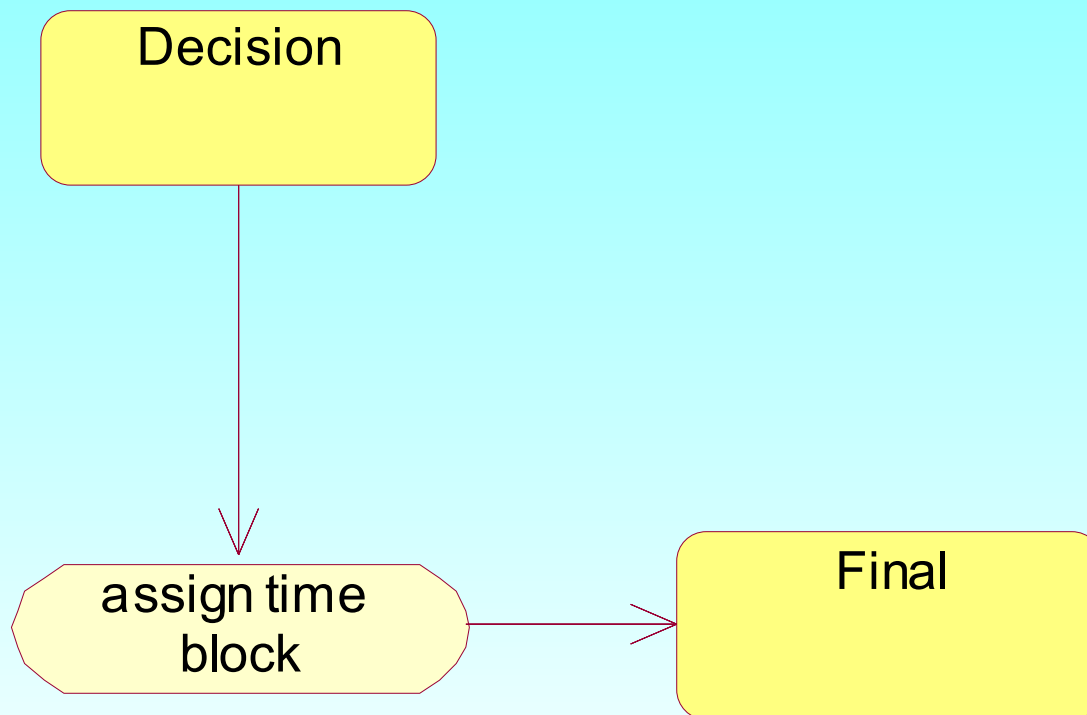
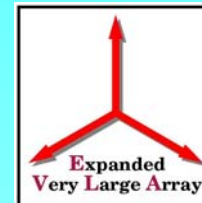


Rating



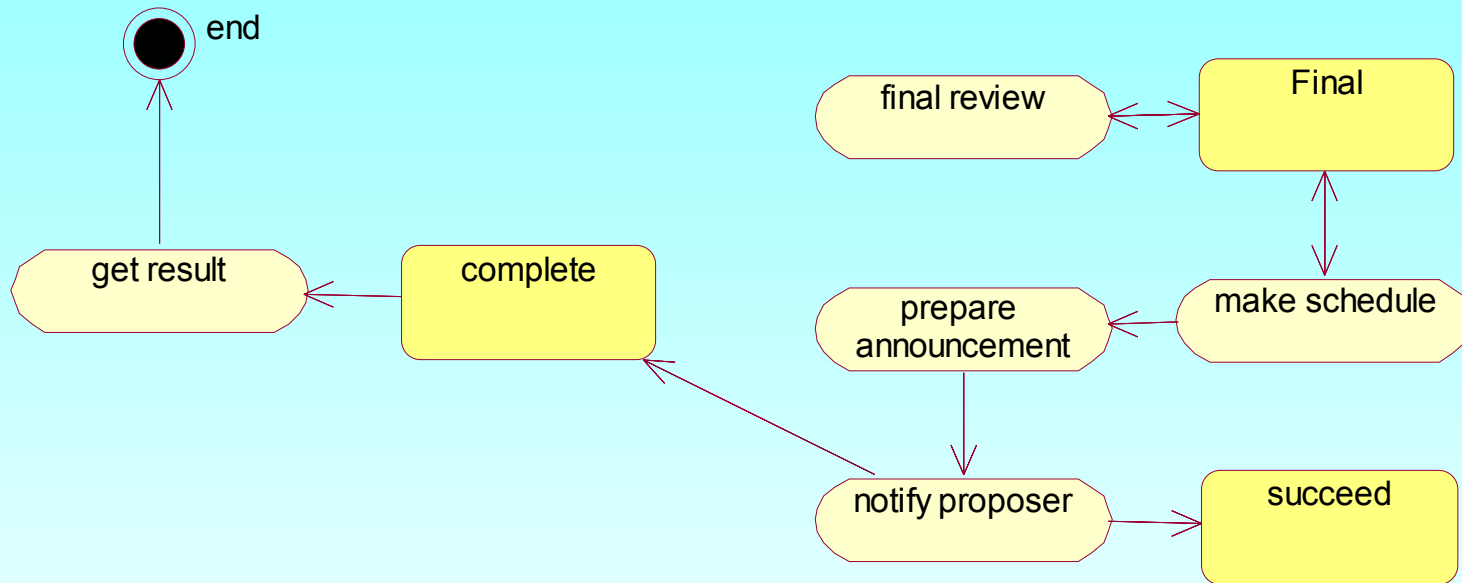
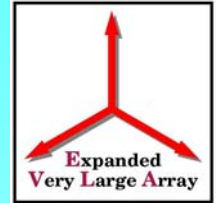


Decision



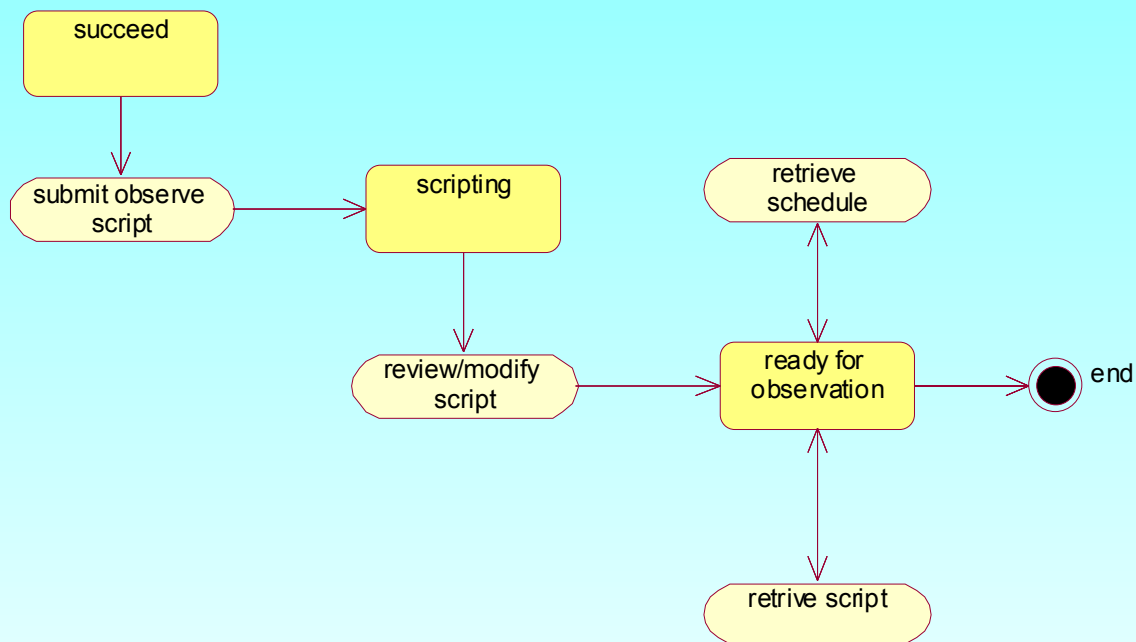
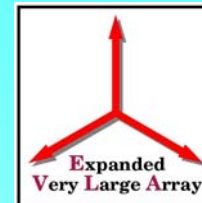


Announcement



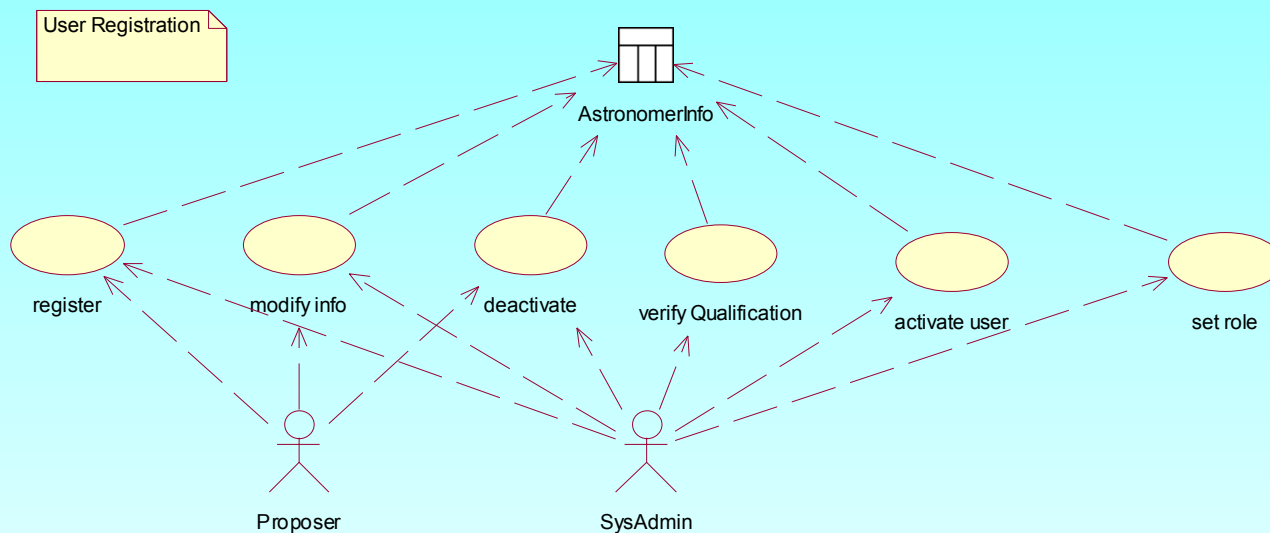
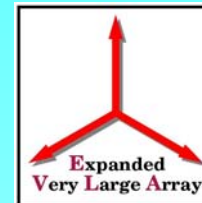


Scripting



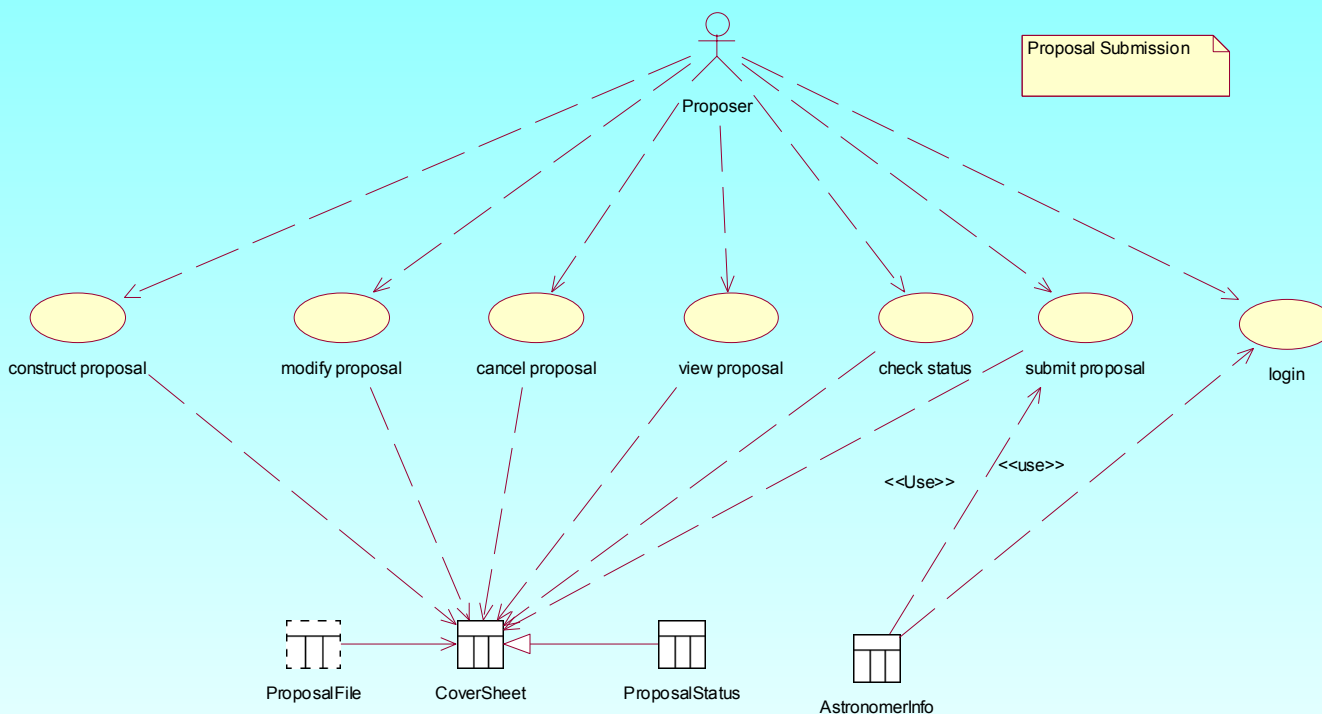
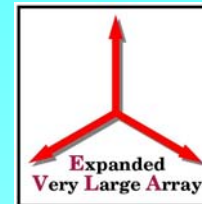


Registration



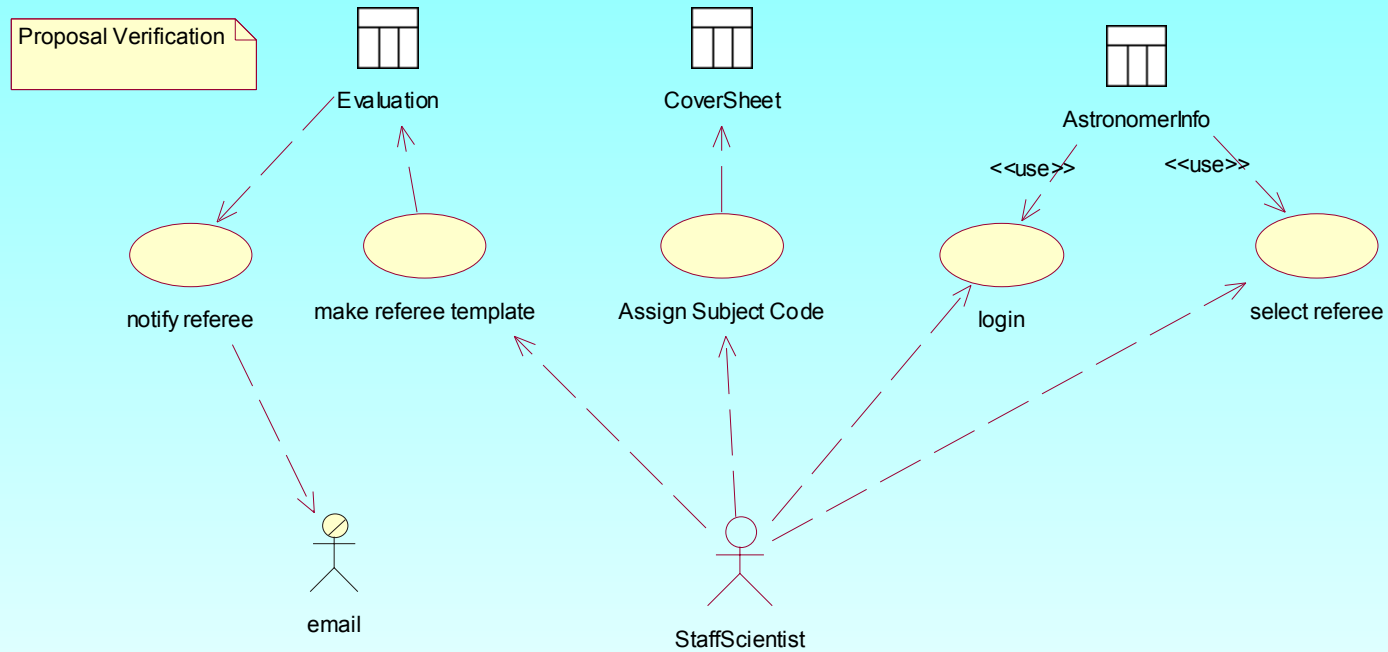
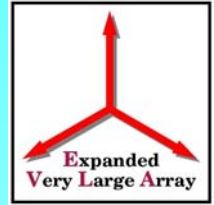


Submission



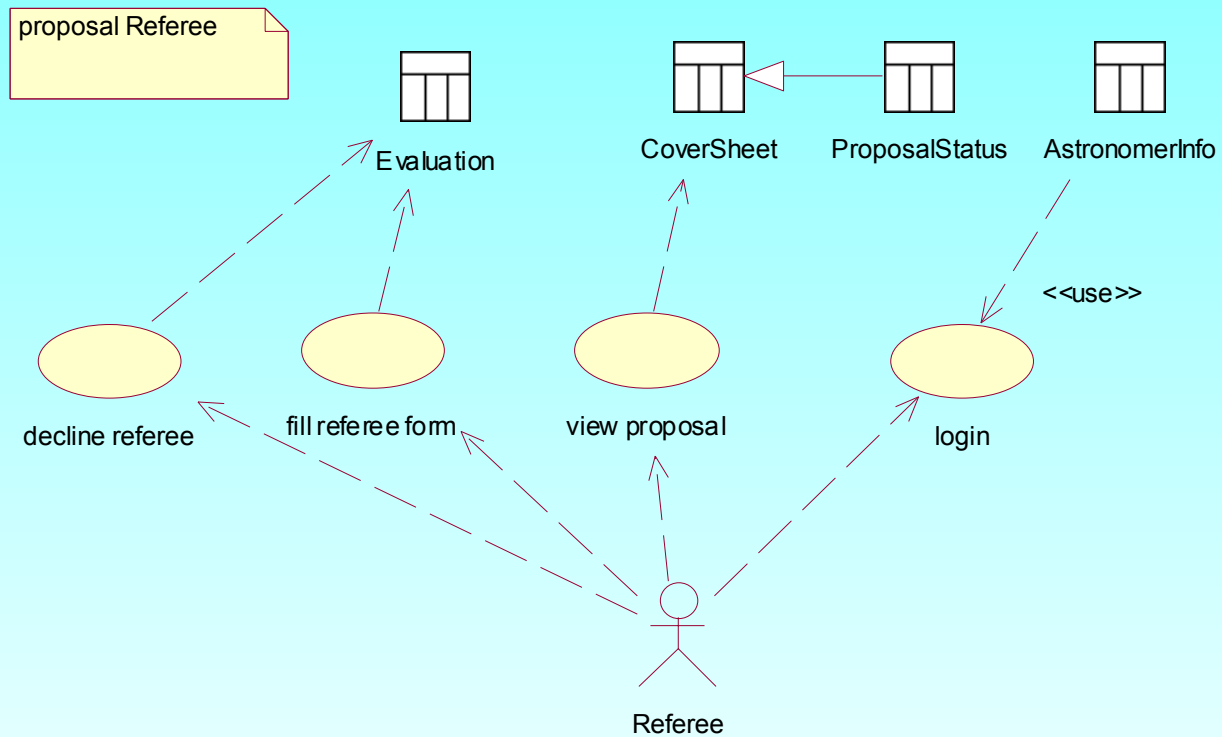
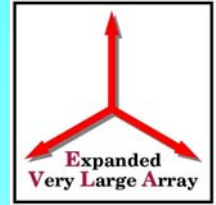


Verification



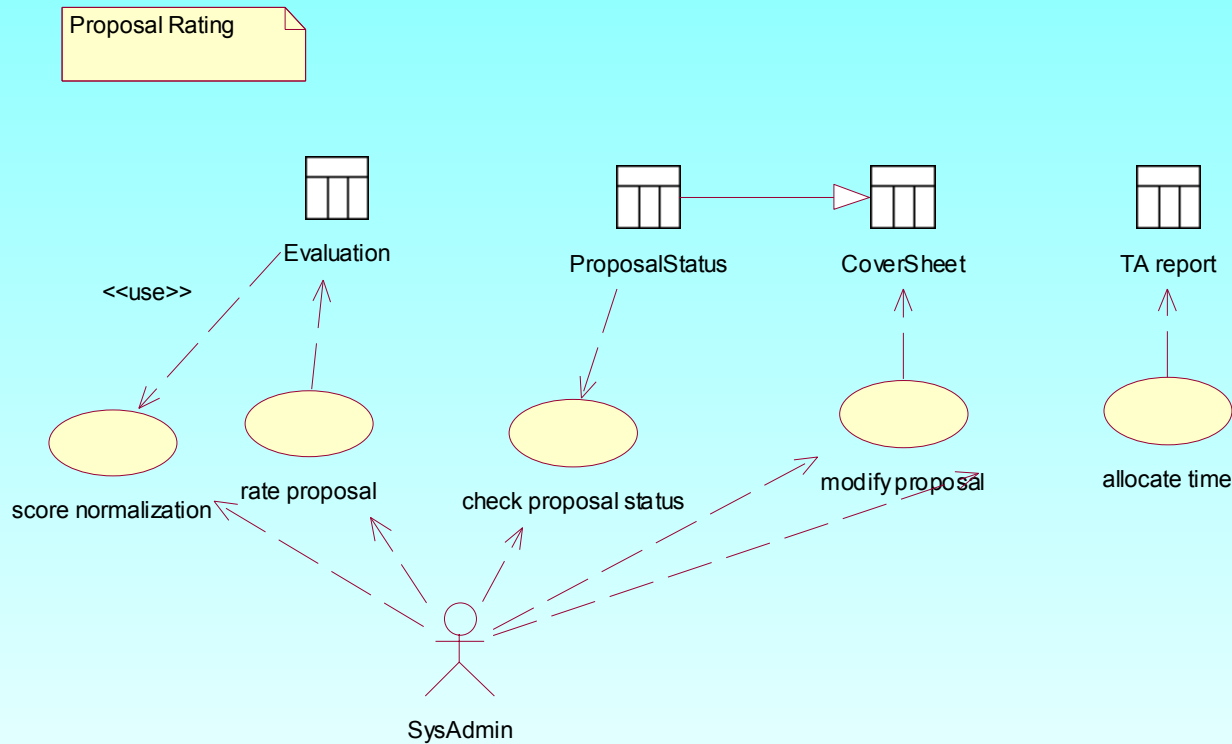
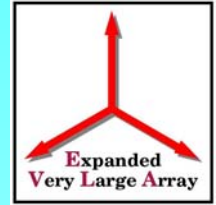


Referee



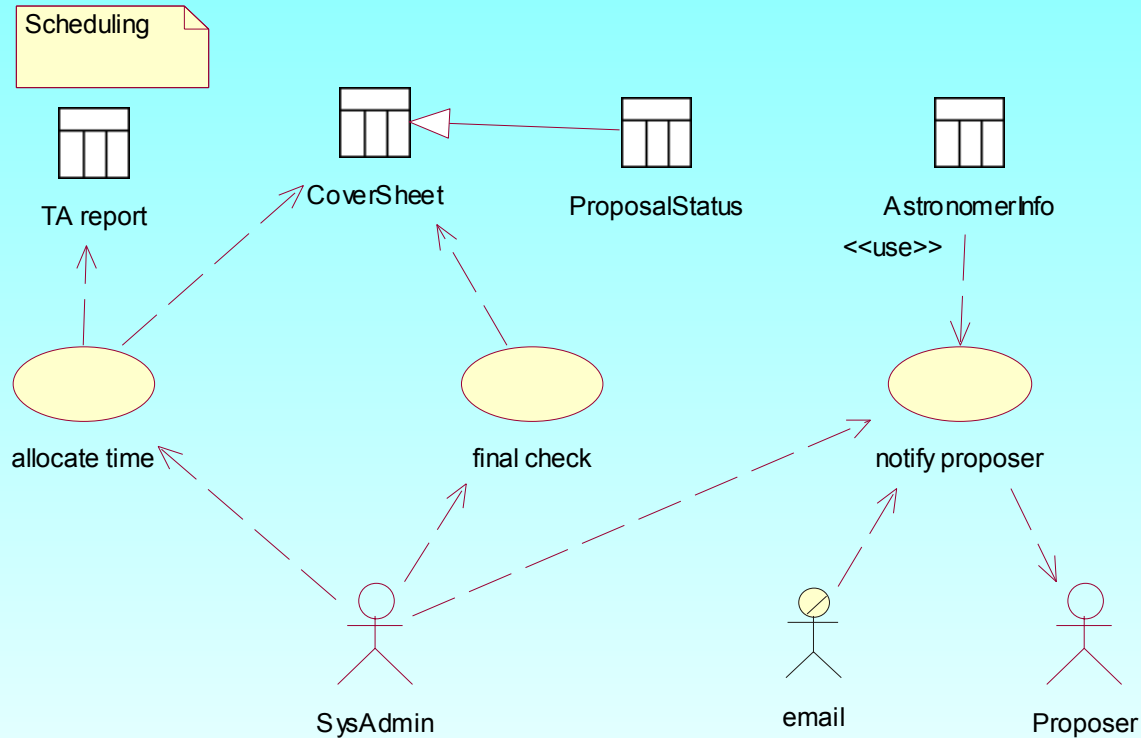
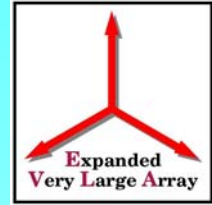


Rating





Time Allocation & Announce





Design Options



- Complex system
- Many mature technologies available
- Similar system (order processing etc)
- Submission tool kit exists (Chandra, Gemini)

Goal: Easy to use

- Automation as much as possible
- Friendly user interface



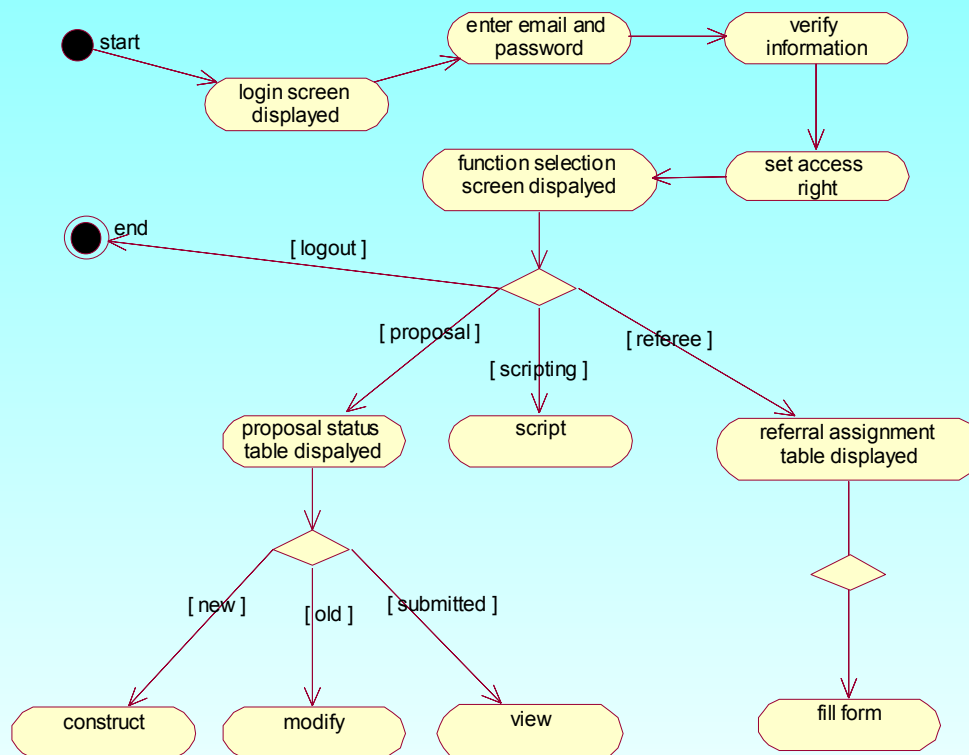
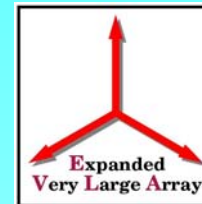
Architecture



- A mixture of HTTP forms, java applets, java servlets, java applications and java beans
- Backend: Oracle data base
 - Frontend: thin web client / application
 - Middle layer: servlet, Enterprise Java Beans
 - J2EE server

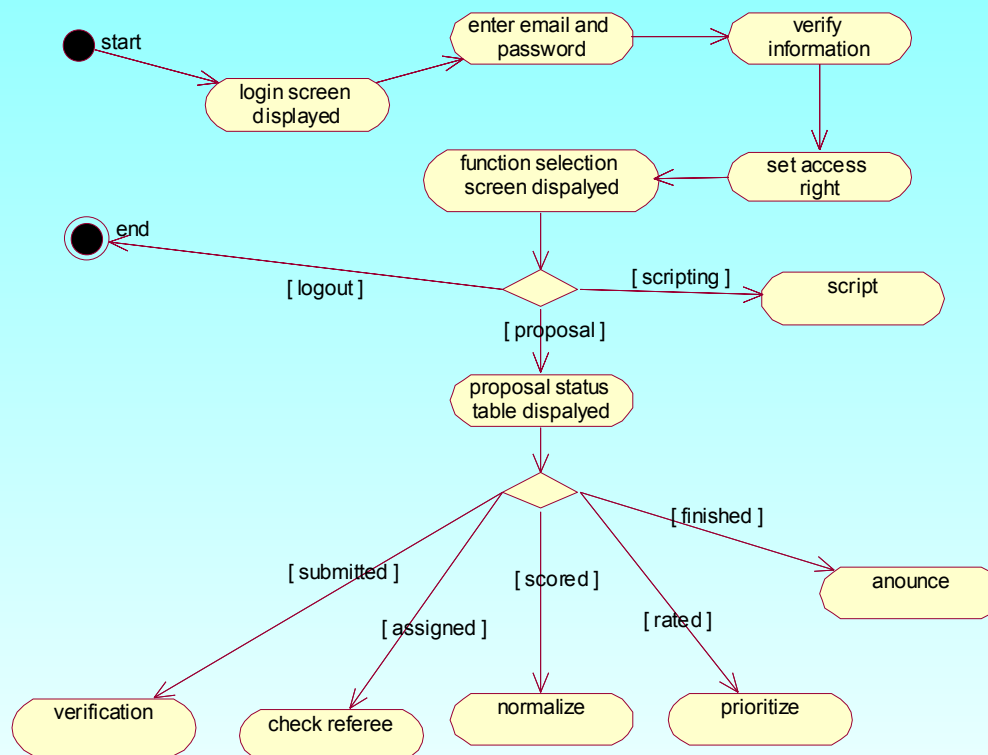
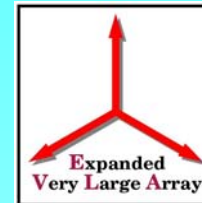


User Interface (proposer & referee)





User Interface (staff & administrator)





Development Tasks



Design and implement

- Database schema, layout, rollover strategy
- User interface and user logic
- Business logic and components

Target:

- From submission to allocation
- For VLA and VLBA
- Prototype to prove the concept