CISC 498
Project Requirements

Jim Cordy

Steve Jobs

Barack Obama

Introduction

- General Silly Projects Board
- Proposal submitted to Unit SPB's -> GSPB administrator
- Excel spreadsheets used to document each proposal's vital information
- Routing slip used for tracking
- Objective: Simplify & automate

Glossary

- SPB - Silly Projects Board
- GSPB - General Silly Projects Board
- Full Review – Entire board
- Expedited Review – 1-3 board members
- JSP – Java Server pages

User Group

- Students from every faculty at Kagawong
- Professors/reviewers from every faculty at Kagawong
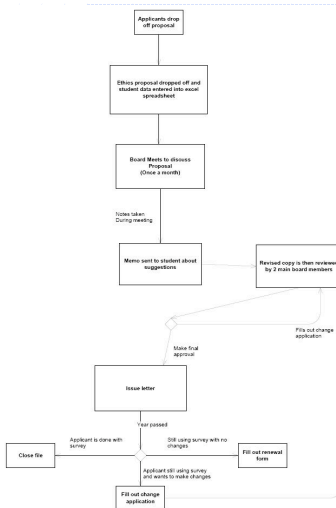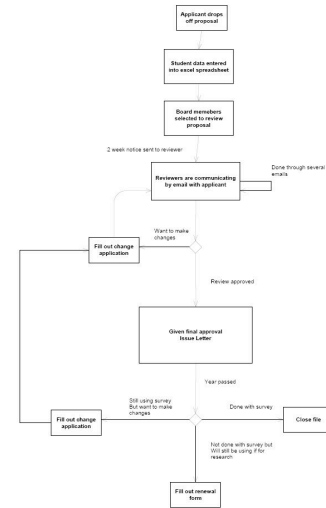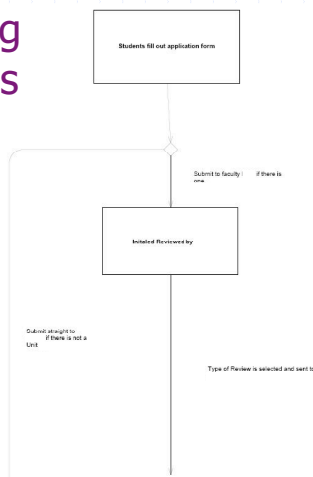- Other off campus researchers

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Context of Operation

- Typically used in quiet areas such as the Kagawong library, or from home on a user's desk
- Session should be saved if user is interrupted
- User should be able to log in and out
- Confidential information

Existing Forms

Existing Process

Students fill out application form

Submit to faculty / if there is one

Initiated Reviewed by

Submit straight to Unit if there is not a

Type of Review is selected and sent to

Applicant drops off proposal

Student data entered into excel spreadsheet

Board members selected to review proposal

2 week notice sent to reviewer

Reviewers are communicating by email with applicant — Done through several emails

Want to make changes

Fill out change application

Review approved

Given final approval Issue Letter

Year passed

Still using survey But want to make changes — Done with survey

Fill out change application

Close file

Not done with survey but Will still be using if for research

Fill out renewal form

Applicants drop off proposal

Ethics proposal dropped off and student data entered into excel spreadsheet

Board Meets to discuss Proposal (Once a month)

Notes taken During meeting

Memo sent to student about suggestions

Revised copy is then reviewed by 2 main board members

Fills out change application

Make final approval

Issue letter

Year passed

Applicant is done with survey

Close file

Still using survey with no changes

Fill out renewal form

Applicant still using survey and wants to make changes

Fill out change application

Roles

◆ **Applicant**
  ▪ Basic user who submits the proposal

◆ **Reviewer**
  ▪ View proposals assigned to him/her, update status

◆ **Administrator**
  ▪ View and edit all proposals, assign proposals to reviewers, view stats

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Functional Requirements (Critical)

◆ Provide a web-based submission form for applications to GSPB

◆ Accounts can be created

◆ Administrator can assign expedited reviews to board members

◆ Allow admin to alter details of all reviews

Functional Requirements (Non-Critical)

◆ Applicant can view the status of application

◆ Provide an overall view of all current applications to the administrator

◆ Reviewer can view all emails sent and received

◆ Email sent to reviewer

Functional Requirements (Optional)

- Have basic form inputs for addition of comments electronically
- Accepting attachments
- Digital Signatures
- CAPTCHA - when you try to sign up you have to enter text that appears to make sure that you are a actual person not an automated program.

Security

- Confidential information
- NetID information must be protected
- Secure database

Usability

- Very user friendly
- Well documented
- Mistakes must be handled
- Changes to personal information

Availability

- Downtime should be minimized
- Applicants must be able to check status and work on application at any time

Accessibility

- Must be on a reliable connection
- Should be accessible over internet, not just Kagawong network

Performance

- Database queries
- Lag time will be minimized
- Efficient algorithms

Maintainability

- Well-documented
- High cohesion
- Logical Java classes
  - Well organized file structure
- Clear variable names

Portability

- Java: Needs JVM
  - Should run on any system with Java capabilities
- Will require an Oracle database system
- Standard SQL

Summary

- Automation of existing GSPB proposal and approval process
- High reliability & security requirements

Questions?