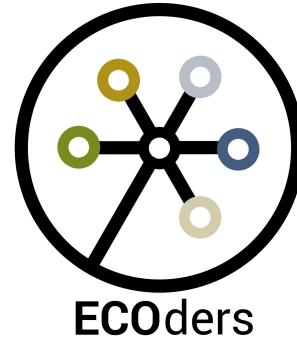


CPCESU Project Management System Design Review 1



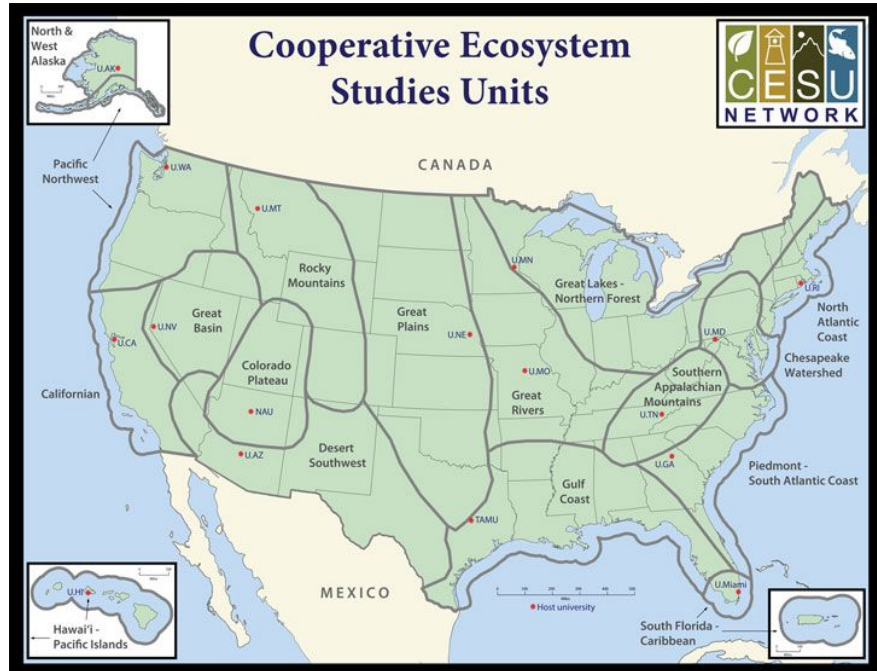
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Joseph Remy [Team Lead], Colton Nunley, Jasque Saydyk

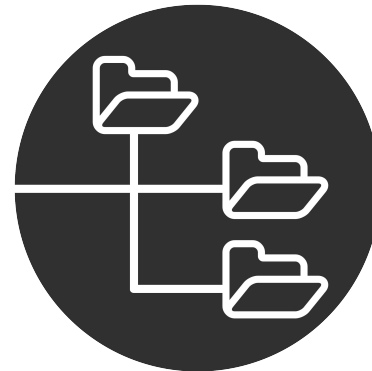
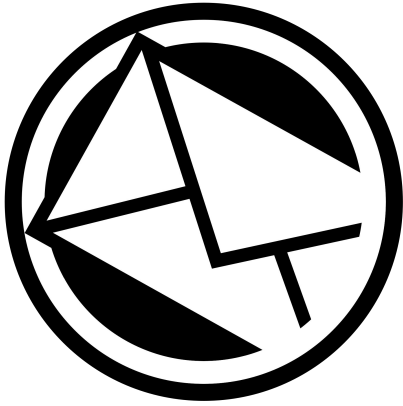
Faculty Mentor: Ana Paula Chaves Steinmacher

Colorado Plateau Cooperative Ecosystem Studies Unit



- CPCECU is a part of a national consortium for resource stewardship
 - Dozens of projects
 - Hundreds of modifications
 - Millions of dollars

Current Technology



Project Workflow

Proposal

Federal agency starts inquiry to non-government contractor

Acceptance

Both parties sign and work begins

Termination

Parties end project.
Final report is created



Drafting

Proposal is passed back and forth



Tracking

CPCESU tracks project including modifications



Reporting

Project archived and used for statistics and reporting



Problems

Proposal

Allow organizations to
Submit proposals

Acceptance

Notify work has
started

Termination

Archive projects

Drafting

Validate information
on the contract

Tracking

Track and Modify
projects

Reporting

Distribute information
to management and
public

Solution - "Summit"

Web Application

Distribute to the public

Submit project proposals

Track & Modify projects

Archive project info for future use



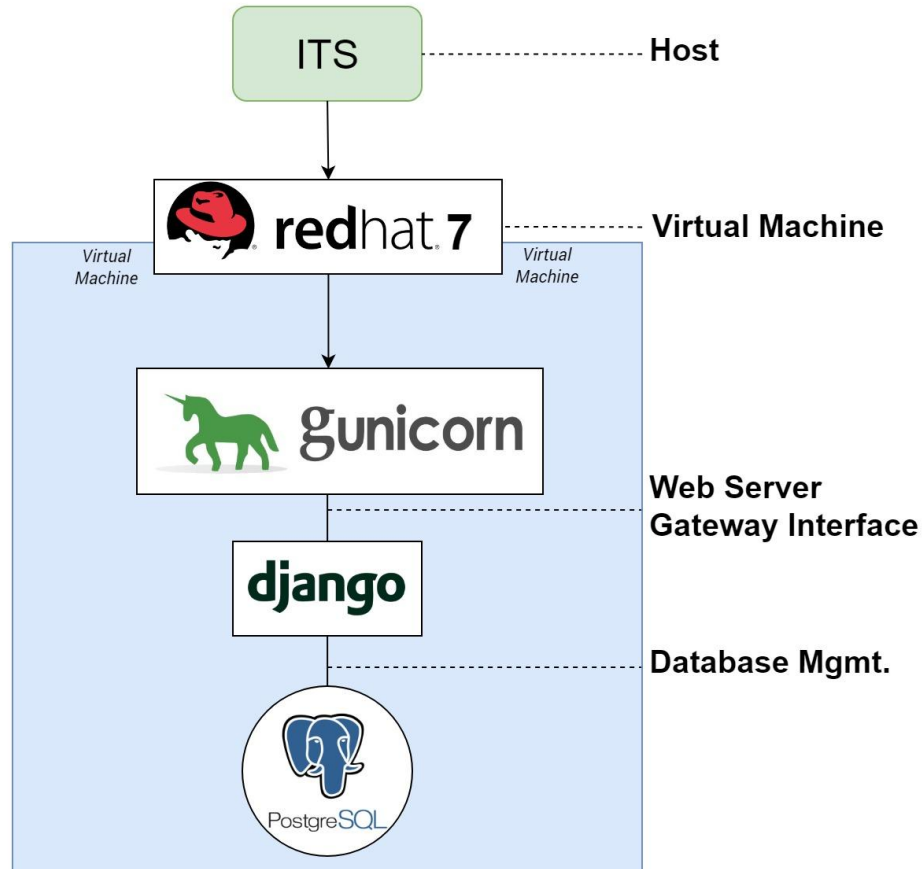
Public



Organizations



System Diagram



Elicitation Techniques

Active

- Weekly Interviews
- Observations

Passive

- System Interface Analysis
- User Interface Analysis
- Document Analysis
- Database Analysis

Key CPCEUSU Staff Requirements

SRS: UR.01 As a CPCEUSU staffer, I want to track projects so that I understand, at a glance, what the project status is

- To be notified to review and approve of project modifications
- To ensure correct data
- To autofill from a document
- To generate and export data from searches

Key Organization/Public Requirements

Organization

- Create a project
- Make a modification to a project

Public

- To search through CPCESU projects
- To be able to use the website

Top Level Functional Requirements

SRS: F1.00 Projects shall be tracked through their six phases: Proposal, Drafting, Execution, Tracking, Termination, Archive

SRS: F2.00 Options may have buttons large enough for users to click on with a slight shake, as defined in the following sections

Top Level Performance Requirements

SRS: P1.00 The website shall take no more than 250 ms to respond to any user input, as defined in the following sections

- Secure
- Intuitive

Top Level Environmental Requirements

SRS: E1.01 Organizations have a variety of non-standard forms, thus **SRS: F7.00** may not apply for all of these forms

Breakdown to Low Level Requirements

SRS: F2.00 Modifications to a project shall be tracked

SRS: F2.01 When a modification is submitted by the organization, a CP Staff shall be notified of the modification

SRS: F2.02 The CP staff shall approve or deny the modification

SRS: F2.03 The result of this modification shall be logged

Breakdown to Low Level Requirements

SRS: F2.02 The CP staff shall approve or deny the modification

SRS: F2.07 When approved, the modification shall be logged

- See **SRS: F2.03**

SRS: F2.08 When denied, the CP Staffer shall note a reason from a field or a custom one

- Field entries are:
 - -

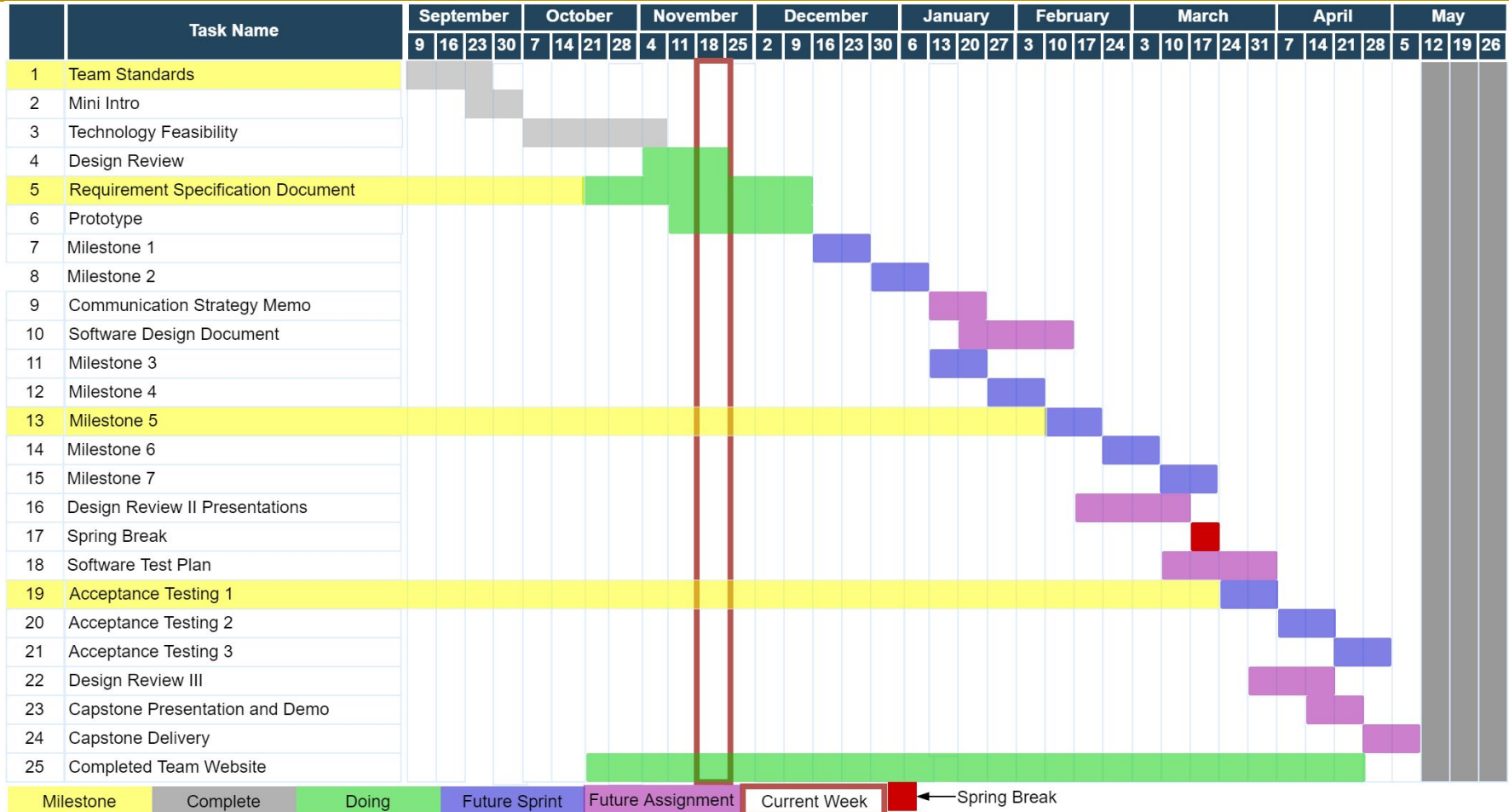
Breakdown to Low Level Requirements

- Modifications to a project shall be tracked
 - The CP staff shall approve or deny the modification
 - When denied, the CP Staffer notes a reason from a field or a custom one
 - Field entries are:
 - Improper paperwork

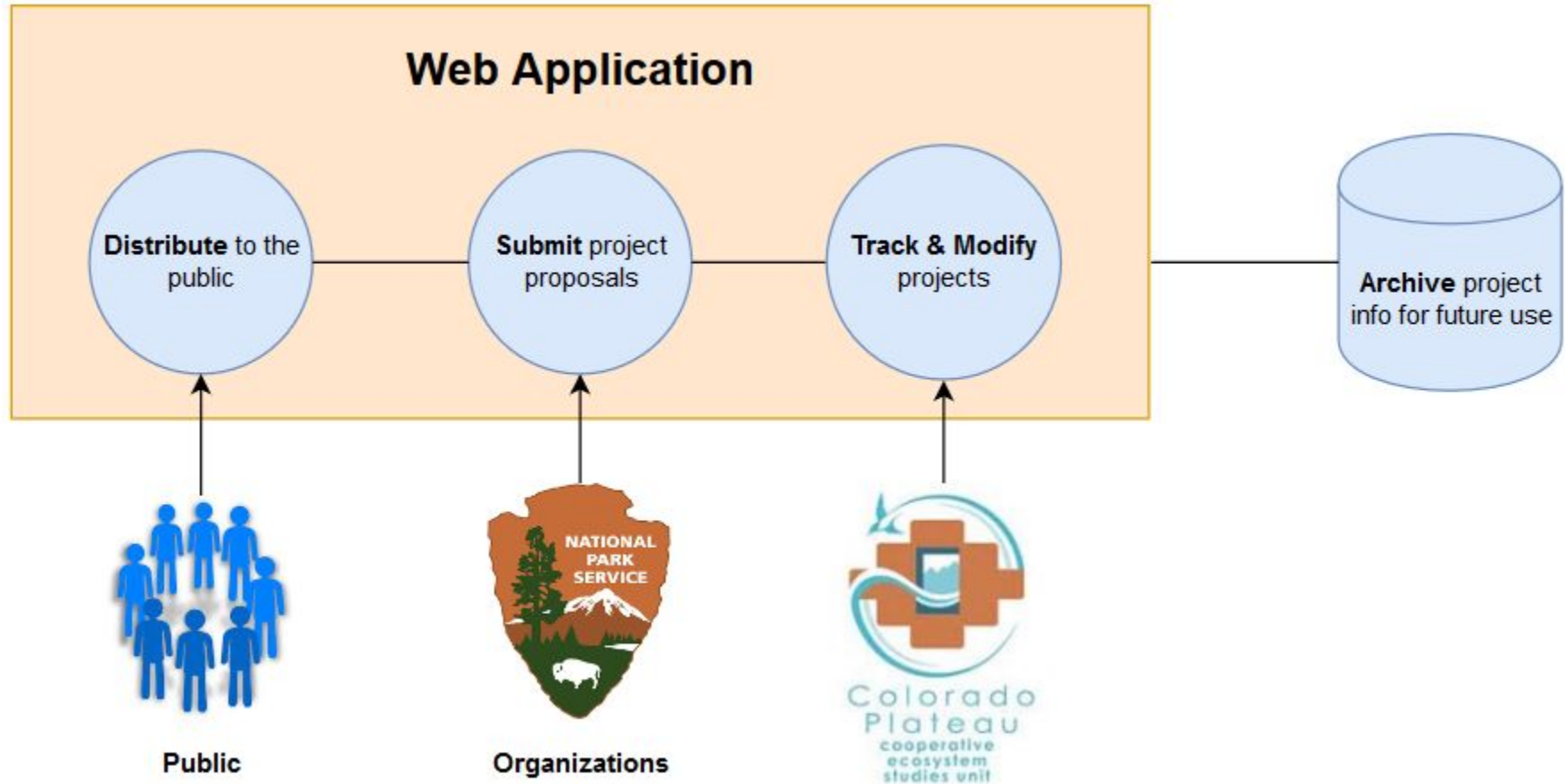
Risks and Feasibility

- **Learning curve too high** | 25% | *High*
 - Overcome with CI/CD, early prototypes
- **Unknown or overlooked requirement** | 10% | *Mid to High*
 - Procedures to modify the SRS after it is signed
- **Security breach** | 5% | *Mid to High*
 - Overcome with security testing

Year at a Glance

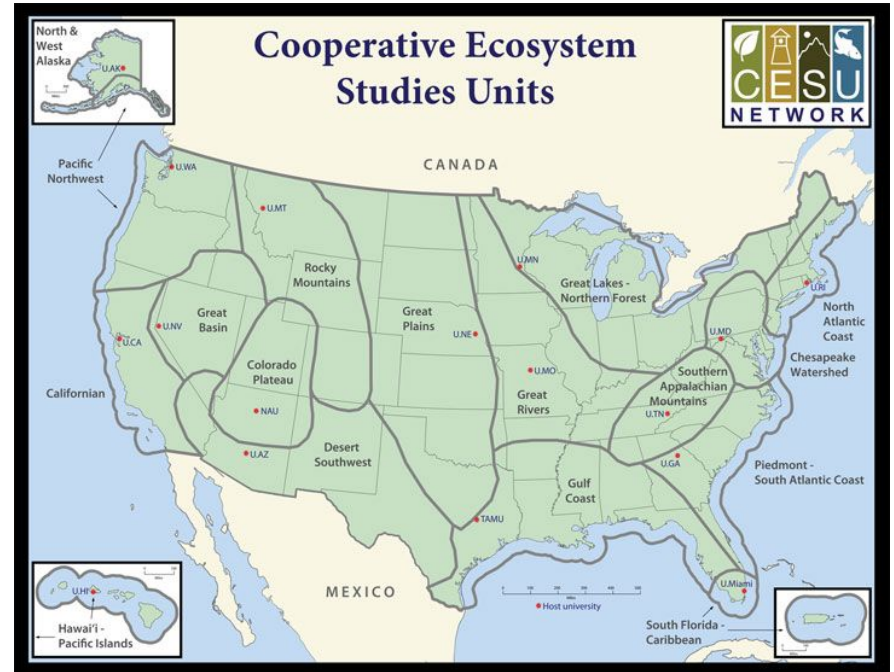


Conclusion



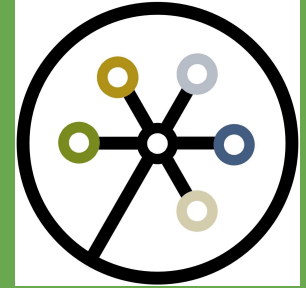
Broader Impacts

- Better reporting to NAU and other organizations
- Can become the national network's system
- Aiding conservation projects and the environment





CPCESU Project Management System



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Fall Semester Schedule

