

# Continuous Community Review Compendium: Jacks Peer Pages



JACKS  
PEER PAGES

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# Team Members



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SQL Architect,  
Database Manager

# About our Client

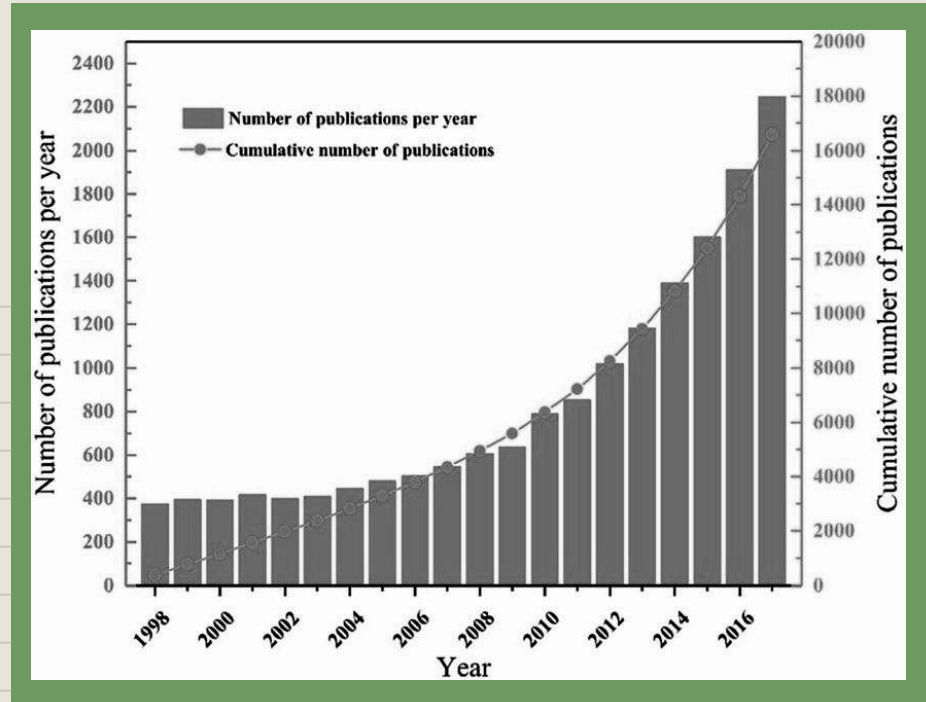
Dr. Keith Nowicki

- Professor of Physics at NAU.
- Working with other professors to make peer review part of the NAU curriculum.



# Project Context - Domain

- The scientific publication industry
- Peer review sharing
- AI oversight



# Project Context - Client Core Needs

A platform that enables:

- **Identification**
  - Allow researchers to flag AI and see AI flags.
- **Education**
  - Help students learn to peer review.
- **Dissemination**
  - Share peer reviews.

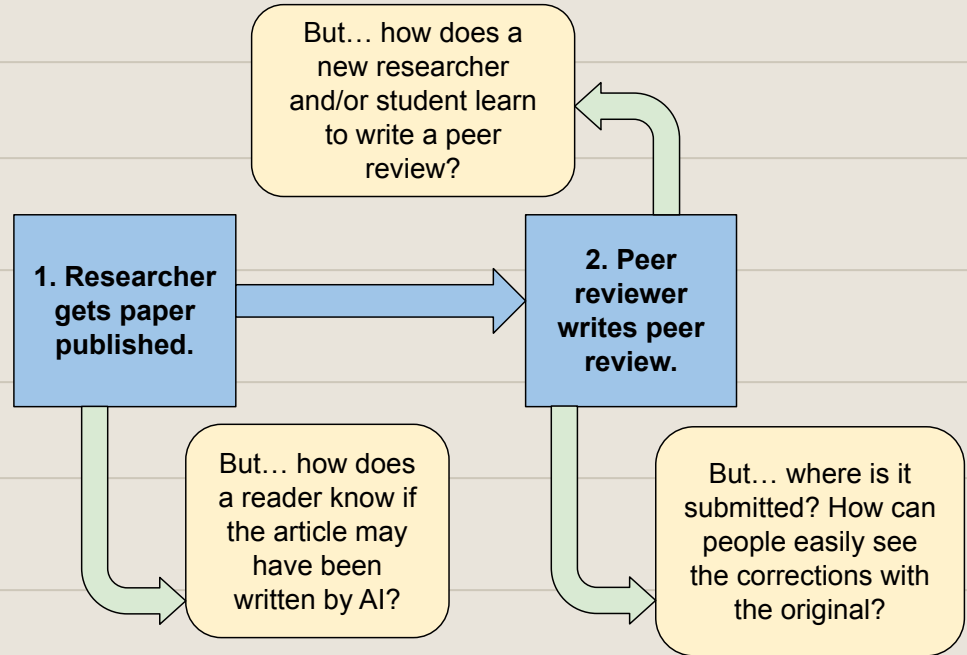


# Problem Statement

01. **AI Overuse.**

02. **No infrastructure to learn to write peer reviews.**

03. **No way to share peer reviews.**



# Solution: Develop A Web-Based Platform

Focus 1:  
Flags AI.



Focus 2:  
Teaches  
students to  
peer review.



Focus 3:  
Allows  
researchers to  
share peer  
reviews.



# Software Design Overview

## Digital Ocean Hosting

Easy maintenance, simple to use  
**Trade off:** cost



## MySQL Database

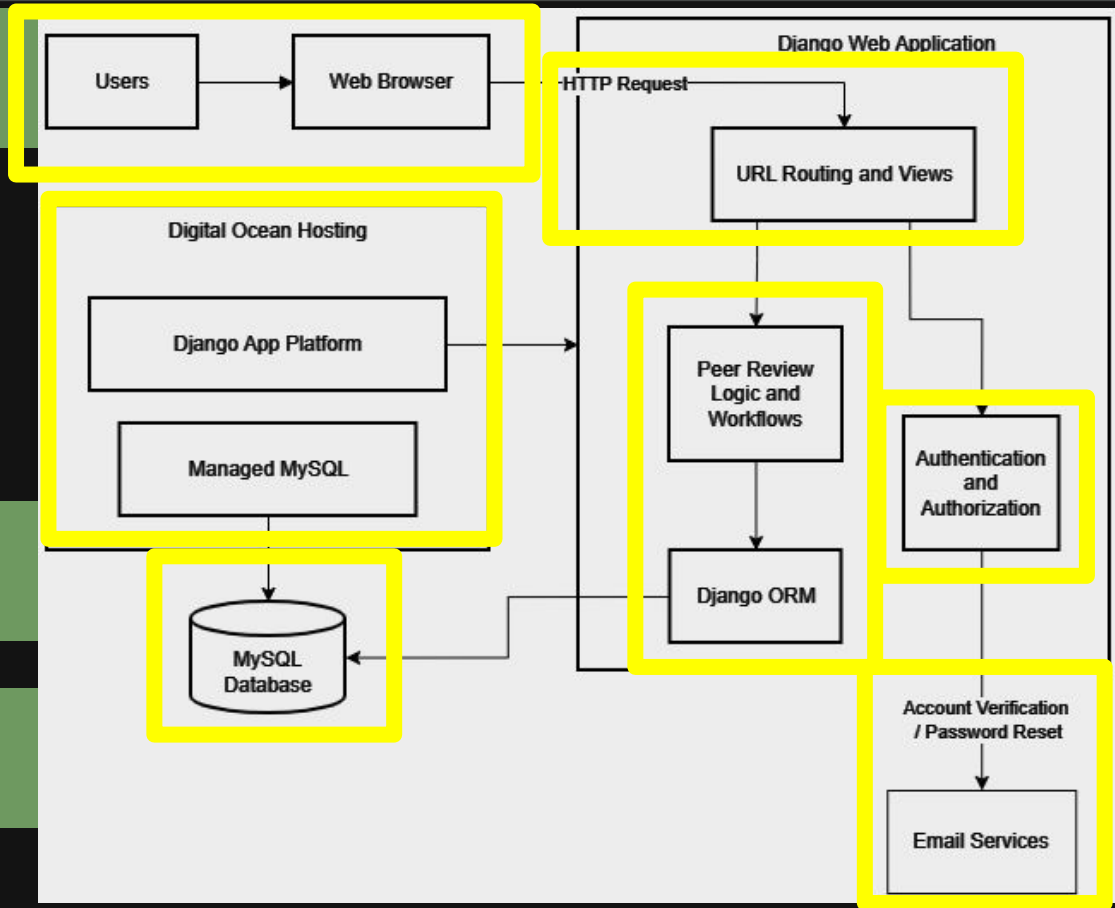
Familiar, expandable, easy to migrate  
**Trade off:** rigid



## Django Architecture

Has great template system, easy to expand  
**Trade off:** more resource usage





# Software Architecture Diagram

# Testing Plan

**Unit Testing:**  
Implement checks for general system actions

**Usability Testing:**  
Test website usability (navigation) and edge cases

**Integration Testing:** Ensure external and internal feature + API's work



# Alpha II Demonstration

Home Upload Article Login Sign Up Search articles... Search

## Sign Up

Already have an account? Then please sign in.

Email

Username

Mentor Access Code (Mentors Only)

Mentor's Username (Students Only)

Password

Password (again)

- Password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

# Challenges, Risks, & Mitigation Strategies

## Easily understandable website.

Simplistic UI with easily understood controls that explain themselves.



## Secure account management.

reCAPTCHA and Django-allauth to prevent bots and use email authentication.



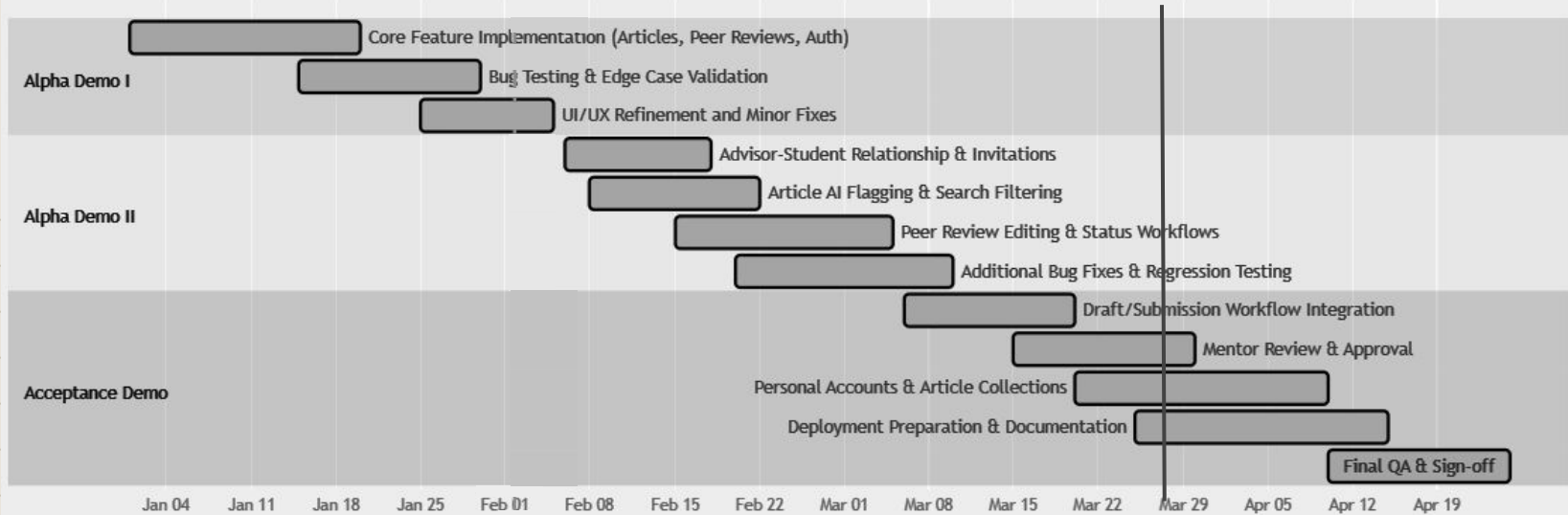
## Managed peer review creation.

Review process that students must go through.



# Upcoming Schedule

## Implementation Plan



# Going Forward

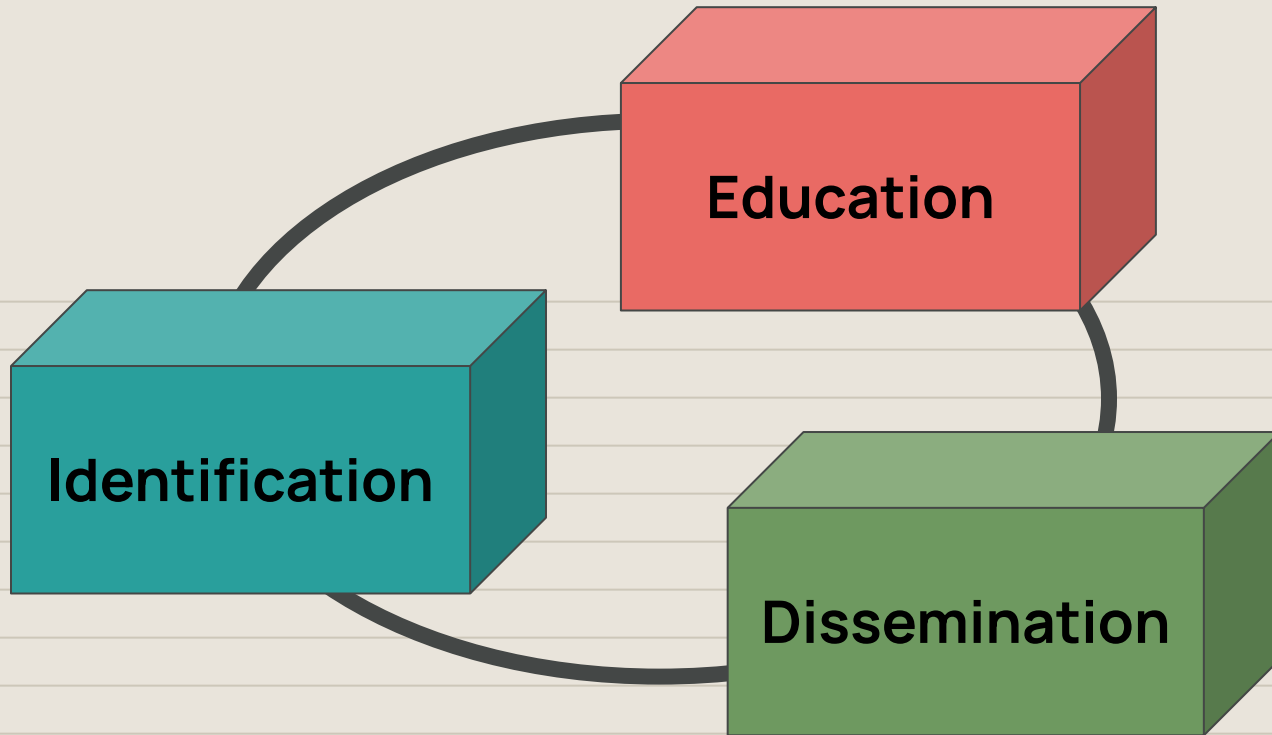
Begin testing  
with graduate  
students

Fine tune our  
features

Give to students  
for actual use



# Conclusion: Overview



# Thank you for listening



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