**Functional Requirements Document (FRD)**

**Project Title:** CIRT

**Version**: 1.0

**Document** **Status**: Draft

**Prepared** **By**: Endi Troqe

Computer Science Student

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# GENERAL

## Project Description

**This project involves developing an Academic Research Database that allows users with a UTampa email to publish research papers. Anyone can view articles, but only privileged users (faculty, peer reviewers, or designated admins) can review and approve submissions before they are made publicly available.**

### Background

This platform is designed to create a **centralized repository** the CIRT department at UTampa, promoting **collaboration, knowledge-sharing, and visibility** of scholarly work.

### Purpose

The objective is to provide a **secure, efficient, and transparent** platform for publishing and reviewing academic research. It ensures that only high-quality and verified research is published while maintaining accessibility for public viewing.

### Assumptions and Constraints

* Users must have a UT email to submit research for review.
* Research must undergo a **review process** before publication
* **Privileged users** (faculty, approved reviewers) can approve submissions.

Constraints:

* The platform should be **user-friendly**, allowing easy browsing and searching.

### 1.1.4Interfaces to External Systems

* **Authentification System**: To verify UT students and faculty.
* **Search Engine**: Stores research articles, user data, and reviews.
* **Database System:** Stores research articles, user data, and reviews.

## Points of Contact

Student – Endi Troqe, Ryan Soroka, Jared Kendrick, Owen O’Oneil, Andres Ponce, Rodrigo Asturias

Faculty advisor – Dr. Lepinski

## Document References

 Open Access Publishing Standards

## Data Requirements

#### Data Stored On Database:

* Research papers
* Author information
* Publication dates
* Approval status

#### Data Stored Externally:

* Authentication
* Users

# Functional Process Requirements

### Setup

* Start
  + **Input**: User registers with UT email.
  + **Output**: User is authenticated and granted access.
* Research Submission
  + **Input**: Users submits PDF article
  + **Output**: Article is stored in pending state until reviewd
* Approval
  + **Input**: Privileged users review submitted research.
  + **Output**: Articles are approved or given feedback.
* Viewing Articles
  + **Input**: User search for article based on keyword, author, or date
  + **Output**: Approved research is displayed.

## Security

* Restricted access based on role.
* UTampa authentication.

## Audit trail

 Tracks submission dates, review actions, and approvals.

## Reliability and Performance

* Maintains performance 99.9% of time

## Capacity and Data Retention

* Supports up to 10,000 concurrent users.
* Drafts and rejected articles are deleted after 3 months.

# REQUIREMENTS TRACEABILITY MATRIX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Requirement Description** | **Requirement Reference in FRD** | **Verification Method** | **Requirement Reference in Test Plan** |
| 1 | |  |  | | --- | --- | |  | User authentication via  UTampa email | | Section 4.2.1 | Verify login success. | |  | | --- | | Test 1: Authentication |  |  | | --- | |  | |
| 2 | |  | | --- | | Review and approval  system |  |  | | --- | |  | | Section 4.2.2 | Validate article submission. | Test 2: Submission |
| 3 | Public viewing & search | Section 4.2.3 | Verify approval flow   |  | | --- | |  | | Test 3: Review Process |
| 4 | Public viewing & search | Section 4.2.4 | Ensure public access to approved research   |  | | --- | |  | | Test 3: Review Process |

# Glossary

* **Submitter:** A UTampa student or faculty member who submits research.
* **Reviewer:** A faculty member or designated reviewer who approves research.
* **Admin:** A privileged user with full control over the system.
* **Pending Research:** A submitted article awaiting approval.
* **Published Research:** An article that has passed the review process and is publicly available.
* **UTampa Email Authentication:** A verification process ensuring only UTampa members can submit research.