

1. Introduction

This document details the requirements for a web application designed to showcase the school's research, innovation, and development initiatives. The application will enable administrators to manage and publish articles, lecturer profiles, and facilitate the dissemination of information to a broad audience.

2. Goals

- Showcase the school's research, innovation, and development activities.
- Provide a platform for lecturers to share their work.
- Enhance the visibility of the school's academic contributions.
- Facilitate knowledge sharing and collaboration.
- Provide an admin interface for easy content management.

3. Target Audience

- **Website Visitors:** Prospective students, current students, alumni, other academic institutions, industry partners, and the general public.
- **Administrators:** Staff responsible for managing website content.
- **Lecturers:** Faculty members contributing research, innovation, and development information.

4. Functional Requirements

4.1. Website Front-end

- **Homepage:**
 - Display articles categorized as "Research," "Innovation," and "Development."
 - For each article, display:
 - Cover Photo
 - Title
 - Lecturer Name and Profile Picture
 - Faculty
 - 500-word summary
 - "Read More" link
- **Article Detail Page ("Read More" page):**
 - Display the full article content (500 words).
 - Display the title of the article.
 - Display the cover photo.
 - Display Lecturer Name, Profile Picture, Department, and Faculty.
 - Call to action: "Visit the University" or "Contact for Full Research Information."
 - Display the number of page visits for the article.

- **Search:**
 - Allow visitors to search for articles by keywords.
 - Display search results, highlighting the category (Research, Innovation, Development) of each article.
 - Optional: Implement filtering for search results (e.g., by category, lecturer).

4.2. Admin Dashboard

- **Lecturer Management:**
 - **Lecturer List:**
 - Display a list of lecturers.
 - Include a search function to find lecturers.
 - **Add Lecturer:**
 - Administrators can manually add lecturer details:
 - Name
 - Profile Image
 - Department
 - Faculty
 - **Invite Lecturer:**
 - Administrators can invite lecturers via email.
 - The email will contain a link to a form where lecturers can submit:
 - Name
 - Department
 - Faculty
 - Profile Image
- **Article Management:**
 - **Article List:**
 - Display a list of articles.
 - Include a search function.
 - **Add New Article:**
 - Administrators can create new articles with the following fields:
 - Title
 - Category (Research, Innovation, Development)
 - Content (500-word limit, using a rich text editor)
 - Cover Photo
 - Contributors:
 - Search for lecturers to add as contributors.
 - If a lecturer is not found, provide an option to add their name.
 - Publish
- **Admin Main Dashboard / Admin Home page:**

- Display an overview of the website's content:
 - Number of research articles.
 - Number of innovation articles.
 - Number of development articles.
 - Recent articles.
- Provide a search function for articles.
- Include a button to "Add New Article."

5. Content Requirements

- **Article Content:** Each article will be a maximum of 500 words.
- **Lecturer Information:**
 - Name
 - Profile Picture
 - Department
 - Faculty

6. Non-Functional Requirements

- **Usability:**
 - The website should be easy to navigate for both visitors and administrators.
 - The admin dashboard should have an intuitive interface.
- **Performance:** The website should load quickly.
- **Responsiveness:** The website should be responsive and accessible on various devices (desktops, tablets, and smartphones).
- **Search Engine Optimization (SEO):** Implement SEO best practices to improve website visibility.
- **Security:** Ensure the website is secure and protects against common web vulnerabilities.
- **Maintainability:** The codebase should be well-organized and documented for easy maintenance and updates.

7. Data Requirements

- **Lecturer Data:**
 - Name (Text)
 - Profile Picture (Image File)
 - Department (Text)
 - Faculty (Text)
 - Email (Text) - for invitations
- **Article Data:**
 - Title (Text)

- Category (Text: "Research," "Innovation," or "Development")
- Content (Text)
- Cover Photo (Image File)
- Contributors (List of Lecturer IDs)
- Publication Date (Date)
- Page Views (Number)

8. Meeting on Monday

This PRD will be discussed in detail during the meeting on Monday. All stakeholders are encouraged to review this document and come prepared to provide feedback and address any questions.