Lab IV - ResearchLink Prototype User Manual Outline

1. Introduction (Dinah Watkins)

- Thank the users for being interested in ResearchLink
- What is ResearchLink?
  - Consolidated environment to disseminate and access research opportunities
  - Portal to stay up to date on current news on research and student successes in research
  - Describe benefits to students and faculty
- What does ResearchLink do?
  - Students
    - Portal to view current research opportunities
    - Portal to view current news on student successes and research being conducted at the university
    - Provides necessary reminders to ensure opportunities application deadlines are not missed
  - Faculty
    - Portal to share and edit research opportunities
    - Portal to share news on research and student successes
    - Access to student profiles to aid in finding candidates for research
- Major Functional Component Diagram

2. Getting Started (Matthew Redenius)

- Accessing ResearchLink
  - Web browser
  - URL
- Landing page
  - Login
  - User registration
    - Register for account
    - User Email address verification

3. Using the ResearchLink Prototype

3.1 Using ResearchLink as a Student (Kitt Parker)

- Home
- Profile
  - View profile
3.2 Using ResearchLink as a Faculty Member (Kevin Ashley)

- Home
Profile
  ○ View profile
    ■ Personal information
      ● First name
      ● Last name
      ● Address
      ● Email
      ● Phone Number
      ● Profile Picture
    ■ Department
    ■ Courses taught
    ■ Interest areas
  ○ Edit profile
    ■ Personal information
      ● First name
      ● Last name
      ● Address
      ● Email
      ● Phone Number
      ● Profile Picture
    ■ Department
    ■ Courses taught
    ■ Interest areas
  ○ Student Search
    ■ Search by
      ● All students
      ● GPA: Minimum GPA
      ● Name: First and Last Name
      ● Major
      ● Grade level
    ■ View Profile

Research
  ○ Create New
    ■ Title
    ■ Description
    ■ Distance learning
    ■ Paid
    ■ Application start date
    ■ Application end date
Opportunity start date
Opportunity end date
Type
Agency
Department
Category
Research lead

My Opportunities

Edit opportunity
- Title
- Description
- Distance learning
- Paid
- Application start date
- Application end date
- Opportunity start date
- Opportunity end date
- Type
- Agency
- Department
- Category
- Research lead

Delete opportunity

News

Create New
- Title
- Description
- Image
- Available to:
  - Public
  - Registered users
  - Both
- Expiration Date

My News

Edit news
- Title
- Description
- Image
- Available to:
3.3 Using ResearchLink as an Admin (Asim Amjad)

- Home
- Site Administration
  - Users
    - Add New
    - View All
  - Research Opportunities
    - Add New
    - View All
  - News
    - Add New
    - View All
- Database Administration
  - Departments
    - Add New
    - View All
  - Academic Subjects
    - Add New
    - View All
  - Courses
    - Add New
    - View All
  - Research Categories
    - Add New
    - View All
  - Research Agencies
    - Add New
    - View All

3.3 Using ResearchLink's Notification System (John Raha)

- Email notifications
  - New research opportunity related to student interests
○ Expiring opportunity

● In-app notifications
  ○ New research opportunity related to student interests
  ○ Expiring opportunity

3.4 Command Summary Table (Dinah Watkins)

● Student
  ○ View profile
  ○ Edit profile
  ○ View opportunities
  ○ View saved opportunities
  ○ View matched opportunities
  ○ View current news

● Faculty
  ○ View profile
  ○ Edit profile
  ○ Filter profiles
  ○ View student profile
  ○ Contact student
  ○ Create new opportunity
  ○ View my opportunities
  ○ Edit opportunity
  ○ Delete opportunity
  ○ Create news
  ○ View my news
  ○ Edit news
  ○ Delete news

● Admin
  ○ View all users
  ○ Modify users
  ○ Delete users
  ○ Add new research opportunities
  ○ Modify research opportunities
  ○ Delete research opportunities
  ○ Add new news
  ○ Modify news
  ○ Delete news
  ○ Add new departments
  ○ View all departments
CS 411W Orange Team User Manual

○ Add new academic subjects
○ View all academic subjects
○ Add new courses
○ View all courses
○ Add new research categories
○ View all research categories
○ Add new research agencies
○ View all research agencies

4. Error Messages (Matthew Redenius)

● No records for Faculty/Admin
  ○ Opportunities
  ○ News
● Duplicate records
● Invalid form input
● Password complexity requirements
● ODU email domain confirmation
● Requirements for registration

5. Glossary (Collaboration)

Apache2 Server: Web server software.
Banner: Old Dominion University’s Administration System that provides controlled access to financial, student and personnel data. This system is only available to faculty and staff.
Bootstrap: HTML, CSS and JS framework for developing a responsive web-based project.
Browser: A web browser is a software application for retrieving, presenting, and traversing information resources on the World Wide Web.
CSS: Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language.
Date Object: An object that enables basic storage and retrieval of dates and times.
Engine: In computer programming, an engine is a program that performs a core or essential function for other programs.
GPA: Grade Point Average.
HTML: Hyper Text Markup Language is the standard language for creating web pages and applications.
JavaScript: A script language for programming on the web.
LAMP: A combination of Linux Apache MySQL PHP.
Laravel: A powerful model-view-controller (MVC) PHP framework, designed for developers who need a simple and elegant toolkit to create full-featured web applications.
LINUX: An open source version of UNIX operating system.
MFCD: Major Functional Component Diagram.
MIDAS: Monarch Identification and Authorization System.
MySQL: Open-source relational database management system.
NASA: National Aeronautics and Space Administration; Offers Undergraduate Research fellowships and internships.
NSF: National Science Foundation (NSF); Offers funded research opportunities through Research Experiences for Undergraduates (REU).
ODU: Old Dominion University.
OECD: Organization for Economic Cooperation and Development.
PHP: Server scripting language for making dynamic and interactive web pages.
Virtual Machine (VM): In computing, a virtual machine (VM) is an emulation of a computer system.
Web Application: In computing, a web application or web app is a client–server software application in which the client (or user interface) runs in a web browser.