Web & information systems

Website Project

**IS373**

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# **Project Briefing**

## **Purpose of the project**

## This webpage is created for all students studying Web and Information Systems to help recruit their fellow students in the same program here at NJIT. It will act as a networking platform for students who are currently in the program and the alumni. Alumni will be able to share their experience and as to what they did to get into this stage. Creating the WIS website for a single major helps many students to focus on the types of jobs made for them and will make them focus more on what they have to do for the targeted goal to be reached. Some other objectives of this website are as follows:

## **Objectives**

* Help alumni and students currently studying have a platform for networking
* Let students get a better understanding of the steps to take to reach the final goal
* Showing a different platform for students to be recruited from belonging to this particular major
* Helps recruiters find the right major students all at one place
* Link all WIS students together
* Engage alumni for alumni events and career opportunities

## **Key Performance Indicators**

* Average time spent on page
* New and returning visitors
* Pages viewed per session
* Session duration
* Scroll Depth

## **Project Process**

* Content Inventory
* Gap Analysis of Content
* Information Architecture
* Wireframes
* CMS Selection + Evaluation
* Project Development

## **System Features**

* Content Inventory
* Gap Analysis of Content
* Information Architecture
* Wireframes
* CMS Selection + Evaluation
* Project Development

# **Content Strategy**

## **Audience**

**Prospective Students**

high school students or current university students who are unaware of the WIS program

* **Awareness**
  + Tutorials on the main content, social media  advert. Promotions, google adds etc.
  + High School students - fliers in mail, emails, high school visits, NJIT open house
  + College students - campus postings, advisor emails, info sessions
* **Interest**
  + - Encourage students to stay updated on WIS via emails, mailing lists, etc. that provide info regarding the program
    - IS educational programs provided by NJIT and how each one of them help succeed in the field of UI/UX as well as
  + **Decision**
    - Videos/resources showing off WIS alumni success
    - persuade  people to enroll in NJIT
  + **Action**
    - Forms to switch majors
    - Sign up for tours of the school or newsletter. Contact the school for more information
  + **Retention**
    - Keep users updated with relevant and new career resources

**Current Students**

Students currently enrolled in the WIS program and can take advantage of course resources

* **Awareness**
  + Professors and advisors share by word of mouth, emails
  + NJIT email, flyers around all the buildings, social media posts, tabling, announcements through corp. app and Highlander Pipeline.
* **Interest**
  + Professors provide relevant course tutorials on website
  + Curriculum and class schedules posted, course overview videos, networking and peer advising opportunities
* **Decision**
  + Get students to connect to people who took the same path as them and to gain any opportunity for future career advice and to know how to manage their academic career.
* **Action**
  + RSVP to any of the events created by alumni. Sign up for peer advising and mentoring programs.
* **Retention**
  + Keep users updated with relevant and new career resources

**Alumni**

WIS graduates who can provide insight and guidance to WIS students/prospects

* **Awareness**
  + email/phone call
* **Interest**
  + Monetary incentive
  + Host awards ceremony for alumni, hall of fame page
* **Decision**
  + Contributions to the school and the students in the major
* **Action**
  + Share experiences and career advice
  + Enroll in different programs to speak to students, encourage students to achieve their degree/career and share the potential struggles and solutions to overcome them
* **Retention**
  + Event calendar to keep alumni in the loop

# **Content Inventory**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Level 0** | **Level 1** | **Level 2** | **Level 3** | **Navbar Title** | **Page Title** | **Files** | **Owner** | **URL** |
| 0 | 0 | 0 | 0 | WIS home page | Welcome to Web and information systems |  | N/A |  |
| 1 | 0 | 0 | 0 | Technologies | Technologies |  | N/A |  |
| 1 | 1 | 0 | 0 | GIT | Git |  | N/A | <https://git-scm.com/> |
| 1 | 1 | 1 | 0 | Github | Github |  | N/A | <https://github.com/> |
| 1 | 1 | 2 | 0 | Gitlab | Gitlab |  | N/A | <https://about.gitlab.com/> |
| 1 | 2 | 0 | 0 | Languages PHP | Languages |  | N/A | <https://www.php.net/> |
| 1 | 2 | 1 | 0 |  | Hypertext processor |  | N/A |  |
| 1 | 2 | 1 | 1 | Composer | Composer |  | N/A |  |
| 1 | 2 | 2 | 0 | Python | Python |  | N/A | <https://www.python.org/> |
| 1 | 2 | 3 | 0 | Visual Studio | Visual Studio |  | N/A | <https://visualstudio.microsoft.com/> |
| 1 | 2 | 4 | 0 | JavaScript | JavaScript |  | N/A | <https://www.javascript.com/> |
| 1 | 2 | 4 | 1 | Node.js | Node |  | N/A | <https://nodejs.org/en/> |
| 1 | 2 | 5 | 0 | C# | C Sharp |  | N/A | <https://docs.microsoft.com/en-us/dotnet/csharp/> |
| 1 | 2 | 6 | 0 | HTML | HyperText Markup Language |  | N/A | <https://www.w3schools.com/html/> |
| 1 | 2 | 6 | 1 | Bootstrap | Bootstrap |  | N/A | <https://getbootstrap.com/> |
| 1 | 2 | 6 | 2 | Jekyll | Jekyll |  | N/A | <https://jekyllrb.com/> |
| 1 | 3 | 0 | 0 | CMS and Frameworks | CMS and Frameworks - CMS |  | N/A |  |
| 1 | 3 | 1 | 0 | Drupal |  |  | N/A | <https://www.drupal.org/> |
| 1 | 3 | 2 | 0 | Wordpress | Wordpress - CMS |  | N/A | <https://wordpress.com/> |
| 1 | 3 | 3 | 0 | Laravel | Laravel - Framework |  | N/A | <https://laravel.com/> |
| 1 | 3 | 3 | 1 | Blade | Blade |  | N/A | <https://github.com/lets-blade> |
| 1 | 3 | 4 | 0 | Django | Django - Framework |  | N/A | <https://www.djangoproject.com/> |
| 1 | 4 | 0 | 0 | Containerization docker | Containers |  | N/A |  |
| 1 | 4 | 1 | 0 |  | Dockers - Container manager |  | N/A | <https://www.docker.com/products/kubernetes> |
| 1 | 4 | 2 | 0 | Kubernetes | Kubernetes - Google |  | N/A | <https://www.docker.com/products/kubernetes> |
| 1 | 4 | 3 | 0 | AWS | AWS - Amazon |  | N/A | <https://aws.amazon.com/> |
| 1 | 4 | 4 | 0 | Azure | Azure - Microsoft |  | N/A | <https://azure.microsoft.com/en-us/> |
| 1 | 5 | 0 | 0 | Developer Tools Jetbrain | Dev Tools |  | N/A |  |
| 1 | 5 | 1 | 0 |  | Jetbrain |  | N/A | <https://www.jetbrains.com/> |
| 1 | 6 | 0 | 0 | Blockchain | Blockchain |  |  |  |
| 1 | 7 | 0 | 0 | Artificial Intelligence | AI |  |  |  |
| 1 | 8 | 0 | 0 | SQL | SQL |  |  |  |
| 1 | 8 | 1 | 0 | mySQL | mySQL |  |  |  |
| 2 | 0 | 0 | 0 | Courses |  | Hub | N/A |  |
| 2 | 1 | 0 | 0 | IS 601 | Web System Development | Articles | Courses |  |
| 2 | 2 | 0 | 0 | IS 421 | Advanced Web Applications | Articles | Courses |  |
| 2 | 3 | 0 | 0 | IS 373 | Content Management Systems | Articles | Courses |  |
| 2 | 4 | 0 | 0 | IS 350 | Computers, Society and Ethics | Articles | Courses |  |
| 2 | 5 | 0 | 0 | IS 333 | Social Network Analysis | Articles | Courses |  |
| 2 | 6 | 0 | 0 | IS 322 | Mobile Applications: Design, Interface, Implementation | Articles | Courses |  |
| 2 | 7 | 0 | 0 | IS 265 | Introduction to Information Systems | Articles | Courses |  |
| 2 | 8 | 0 | 0 | IS 247 | Designing the User Experience | Articles | Courses |  |
| 2 | 9 | 0 | 0 | IS 219 | Advanced Website Development | Articles | Courses |  |
| 2 | 10 | 0 | 0 | IS 218 | Building Web Applications | Articles | Courses |  |
| 2 | 11 | 0 | 0 | IS 117 | Introduction to Website Development | Articles | Courses |  |
| 3 | 0 | 0 | 0 | Skills learned overview | Degree Skills |  | N/A |  |
| 3 | 1 | 0 | 0 | Object oriented programming | OOP |  | N/A |  |
| 3 | 2 | 0 | 0 | Automation | Automation |  |  |  |
| 3 | 2 | 1 | 0 | Software Automatic testing | testing Software |  | N/A |  |
| 3 | 3 | 0 | 0 | Don't Repeat Yourself | DRY |  | N/A |  |
| 3 | 4 | 0 | 0 | Software Development Life Cycle Waterfall model | SDLC |  | N/A |  |
| 3 | 4 | 1 | 0 |  | Waterfall model |  | N/A |  |
| 3 | 4 | 2 | 0 | Iterative Model | Iterative Model |  | N/A |  |
| 3 | 4 | 3 | 0 | Spiral Model | Spiral Model |  | N/A |  |
| 3 | 4 | 4 | 0 | V-Model | V-Model |  | N/A |  |
| 3 | 4 | 5 | 0 | Big Bang Model | Big Bang Model |  | N/A |  |
| 3 | 5 | 0 | 0 | Continuous integration | Continuous integration |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 0 | 0 | 0 | Careers | Careers page |  | N/A |  |
| 4 | 1 | 0 | 0 | Careers possibilities & opportunities | Careers possibilities |  | N/A |  |
| 4 | 2 | 0 | 0 | Job board | board |  | N/A |  |
| 4 | 3 | 0 |  | Job Hunting Tips |  |  |  |  |
| 4 | 4 | 0 |  | Job board |  |  |  |  |
| 4 | 5 | 1 | 0 | careers external resources | career resources |  | N/A |  |
| 4 | 5 | 2 | 0 | training and certifications | professionals resources |  | N/A |  |
| 4 | 5 | 3 | 0 | Indeed |  |  |  |  |
| 4 | 6 | 0 | 0 | Internship Forum |  |  |  |  |
| 5 | 0 | 0 | 0 | Faculty | Faculty |  | N/A |  |
| 5 | 1 | 0 | 0 | W3Schools |  |  | N/A |  |
| 5 | 2 | 0 | 0 | IS Concepts |  |  |  |  |
| 5 | 3 | 0 | 0 | Scheduling Assistance | Set up meetings |  |  |  |
| 5 | 4 | 0 | 0 | Deadline Central | Information |  |  |  |
| 5 | 5 | 0 | 0 | Tutoring | Set up meetings |  |  |  |
| 5 | 6 | 0 | 0 | Alumni Resources | Hub |  |  |  |
| 6 | 0 | 0 | 0 | Continue education | Continue education |  |  |  |
| 6 | 1 | 0 | 0 | Student Stories | Curated stories |  |  |  |
| 7 | 0 | 0 | 0 | Help and Contacts | Faculty contacts |  | N/A |  |

# **Site Structure**

**GitHub Pages:**

<https://ak2254.github.io/WIS-SITEFlow/WIS-SiteFlow/index.html>

**GitHub code:**

<https://github.com/ak2254/WIS-SITEFlow>

# **Website Wireframe**

### **Raw Wireframe structure #1:**

**A screenshot of a cell phone

Description automatically generated**

### **Raw Wireframe structure #2:**

A screenshot of a cell phone

Description automatically generated

**Home page**

### A screenshot of a red and white sign on a city street Description automatically generated

### **Basic Mobile Structure**

A screenshot of a cell phone

Description automatically generated

### **Sign UP**

A screenshot of a cell phone

Description automatically generated

### **Sign In**

A screenshot of a cell phone

Description automatically generated

### **Faculty**

Summary view

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

Detailed view

A screenshot of a social media post

Description automatically generated

### **Courses**

Summary

A screenshot of a cell phone

Description automatically generated

Detailed

A screenshot of a cell phone

Description automatically generated

### **Degrees**

Summary

A screenshot of a cell phone

Description automatically generated

Detailed view

A screenshot of a social media post

Description automatically generated

### **Careers**

**Summary**

**A screenshot of a cell phone

Description automatically generated**

**Detailed**

**A screenshot of a cell phone

Description automatically generated**

### **Technology**

**Summary**

**A screenshot of a cell phone

Description automatically generated**

**A screenshot of a cell phone

Description automatically generated**

**A screenshot of a cell phone

Description automatically generated**

**A screenshot of a cell phone

Description automatically generated**

**Detailed View Concept**

**A screenshot of a social media post

Description automatically generated**

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

### **Help Contact:**

**A screenshot of a cell phone

Description automatically generated**

### **Skills page- basic Structure**

**A screenshot of a cell phone

Description automatically generated**

**Basic continue education structure**

**A screenshot of a cell phone

Description automatically generated**

# **Site Map**

**Sitemap’s External Link-**

<https://drive.google.com/file/d/1QmKbM3AmdTs-XzlCJJgFP_QVD-4i7Q07/view?usp=sharing>

A close up of a computer

Description automatically generated

A screenshot of a cell phone

Description automatically generatedA close up of a device

Description automatically generated