

Functional Requirements:

Prospective Student Requirements

PS1: The system shall allow prospective students to access information about majoring in Math and Computer Science at Penn State Harrisburg. **Priority: Medium**

PS2: The system shall provide links to career advice for both Math and Computer Science majors. **Priority: Medium**

PS3: The system shall display the degree requirements for entrance into their chosen major. **Priority: Medium**

PS4: The system shall provide information about minoring in Math and Computer Science. **Priority: Medium**

Current Student Requirements

CS1: The system shall have a link to outside materials (ie. Online Journals, Degree Audit, Schedule of Courses, Grades, and Transcripts) **Priority: Medium**

CS2: The system shall include a typical schedule of courses that a student in a Math or Computer Science major may follow. **Priority: Medium**

CS3: The system shall house a prerequisite chart for use of students. **Priority: Medium**

CS4: The system shall provide contact information for faculty members and students. **Priority: Medium**

CS5: The system shall include a section enumerating resources available to them. **Priority: Medium**

CS6: The system shall allow for graduate students to access degree requirements for the Graduate School, as well as career advice and general admission information. **Priority: Medium**

General Requirements

G1: The system shall be mobile friendly. **Priority: High**

G2: The system shall have dynamic content on the home screen. **Priority: High**

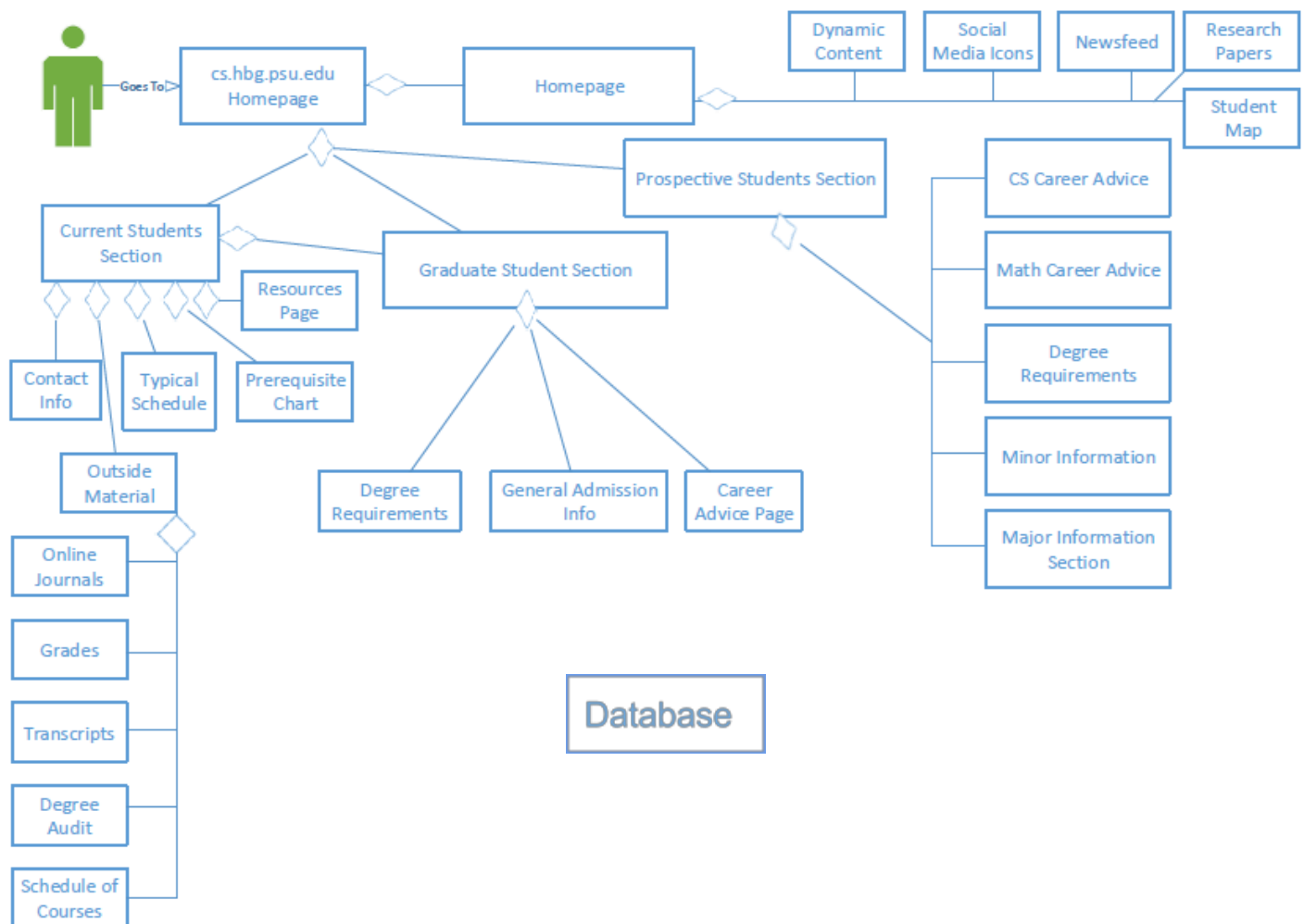
G3: The system shall allow for a newsfeed that will display current events that the department has going on. If no events are current, then this will not be displayed. **Priority: Medium**

G4: The system shall display current research papers that have been worked on by professors and students. **Priority: Medium**

G5: The system shall have social media links. **Priority: Medium**

G6: The system shall display a map of the world with pinpoints to where the population of the student body is from. **Priority: Low**

Domain Model:



Glossary:

Admin - someone with authority to change content and features of the site

Contact Information - name and email

CS - acronym for Computer Science (generally corresponds to the major of Computer Science)

Degree Audit - tool available to students to view what degree requirements are met and unmet

Degree Requirements - an element of the list of required courses and electives for a specific degree

Dynamic Content - rotating multimedia, such as pictures or videos

Easily Maintainable - requiring little to no maintenance

First Year Student - student who has not attended a postsecondary educational institution

General Admission Requirements - requirements to gain entrance to the college as a student

Grades - a link to the grades page on Angel

Graduate Students - current students in the graduate program

Minor - current students with a declared minor

Mobile Friendly - easily loadable and interactable using a smartphone

Newsfeed - list of upcoming events

Online Journals - links to scholarly journals focusing on topics concerning CS and Mathematics

Penn State Harrisburg - the Harrisburg campus of the Pennsylvania State University

PSH - acronym for Penn State Harrisburg

Prerequisite Chart - a flow chart visually showing the prerequisite hierarchy of classes in that program

Prospective Students - potential students in the math or computer science programs

Resources - places or things available to current students, such as the sun lab, library links, etc.

Schedule of Courses - a list of all courses offered at Penn State Harrisburg

Social Media - online way of communication, such as Facebook, Twitter, etc.

Transcripts - a list of all academic information concerning a specific student from Penn State

Transferred - students that are coming to PSH bringing credits from another educational institution