

Classify

Kevin Clark, Justin McManus, Laura Dong

Classify: A course scheduling assistant for college students

CSE 100 Fluency in Information Technology (5) QSR

Introduces skills, concepts, and capabilities necessary to effectively use information technology. manipulation, ethical aspects, and social impacts of information technology. Offered: jointly with Instructor Course Description: [Darleen A. Clements](#) [Katherine Nichole Deibel](#)

CSE 131 Science and Art of Digital Photography (4) VLPA Hemingway

Covers the fundamentals of digital photography, including computational imaging; the elements Instructor Course Description: [Bruce Ray Hemingway](#)

CSE 142 Computer Programming I (4) NW, QSR

Basic programming-in-the-small abilities and concepts including procedural programming (met) Offered: AWSpS. Instructor Course Description: [Benson N Limketkai](#)

CSE 143 Computer Programming II (5) NW, QSR

Continuation of CSE 142. Concepts of data abstraction and encapsulation including stacks, que Instructor Course Description: [Stuart Thomas Reges](#)

CSE 154 Web Programming (5) QSR

Covers languages, tools, and techniques for developing interactive and dynamic web pages. To CSE 142; recommended: CSE 143. Instructor Course Description: [Martin Stepp](#)

CSE 190 Current Topics in Computer Science and Engineering (1-5, max. 15)

Instructor Course Description: [Michael D Ernst](#) [Bruce Ray Hemingway](#) [Raven Avery Lawrence](#)

CSE 303 Concepts and Tools for Software Development (3)

Introduction to key concepts and tools in the development of software not introduced in the intr modern design, implementation, and testing patterns and strategies, and societal impact. Cannot

CSE 311 Foundations of Computing I (4) QSR

Examines fundamentals of logic, set theory, induction, and algebraic structures with application Instructor Course Description: [Rajesh P.N. Rao](#)

CSE 312 Foundations of Computing II (4) QSR

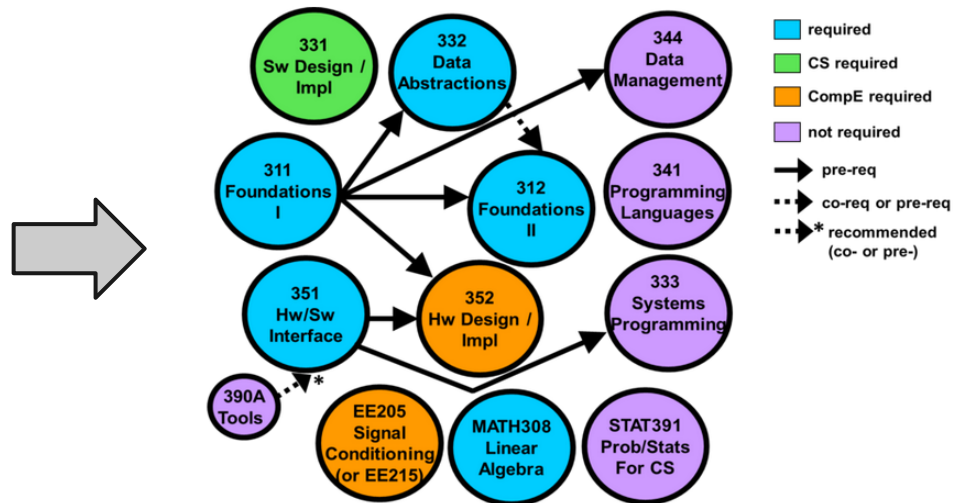
Examines fundamentals of enumeration and discrete probability; applications of randomness to

CSE 321 Discrete Structures (4)

Fundamentals of set theory, graph theory, enumeration, and algebraic structures, with applicatio

CSE 322 Introduction to Formal Models in Computer Science (3)

Finite automata and regular expressions; context-free grammars and pushdown automata; nonde Induction proofs, simulation, diagonalization, and reduction arguments. Prerequisite: CSE 321.



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- Selecting which classes to take can be a complicated process
- Students have to juggle graduation requirements, prerequisites, course time slots, and many other factors when choosing their schedules
- The currently available tools for this are often old and difficult to use
- Classify will make this a much easier and less painful process for UW students
- Long term we can extend to other universities

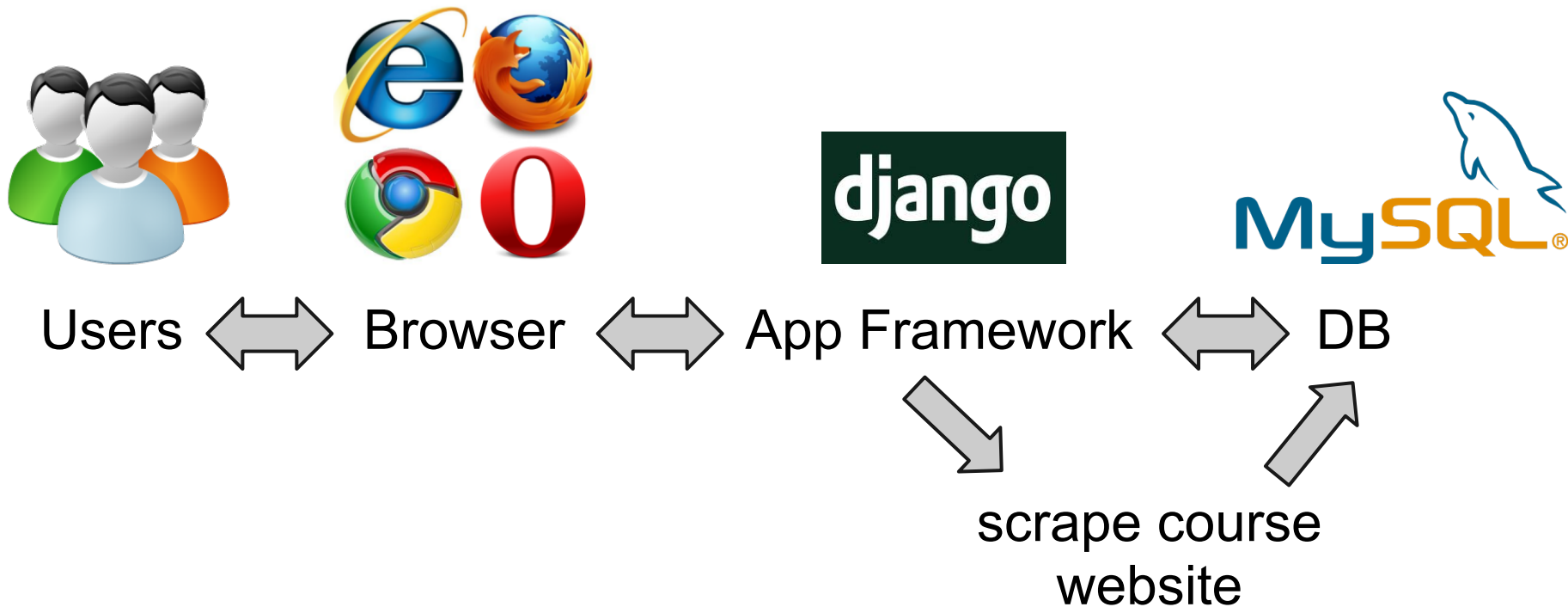
Minimum Viable Product

Web interface for the UW course catalog:

- Users (current UW students) execute queries with more useful conditions: filter by major, course prereqs, instructor, etc.
 - Create accounts to store preferences
- App lists up-to-date course information

Additional features: specifying degree requirements by file upload / UW authentication, notifications upon course changes / openings, saved searches, course suggestions, facebook integration, schedule builder, review system

Implementation Overview



Technical Details

- HTML, CSS, Javascript on frontend (possibly making use of Twitter Bootstrap).
- Python/Django on the server.
- MySQL database.
- lxml or pyquery to scrape content from course webpages.
- cron or Celery to run the parsing routine at regular intervals.