

Milestone 1

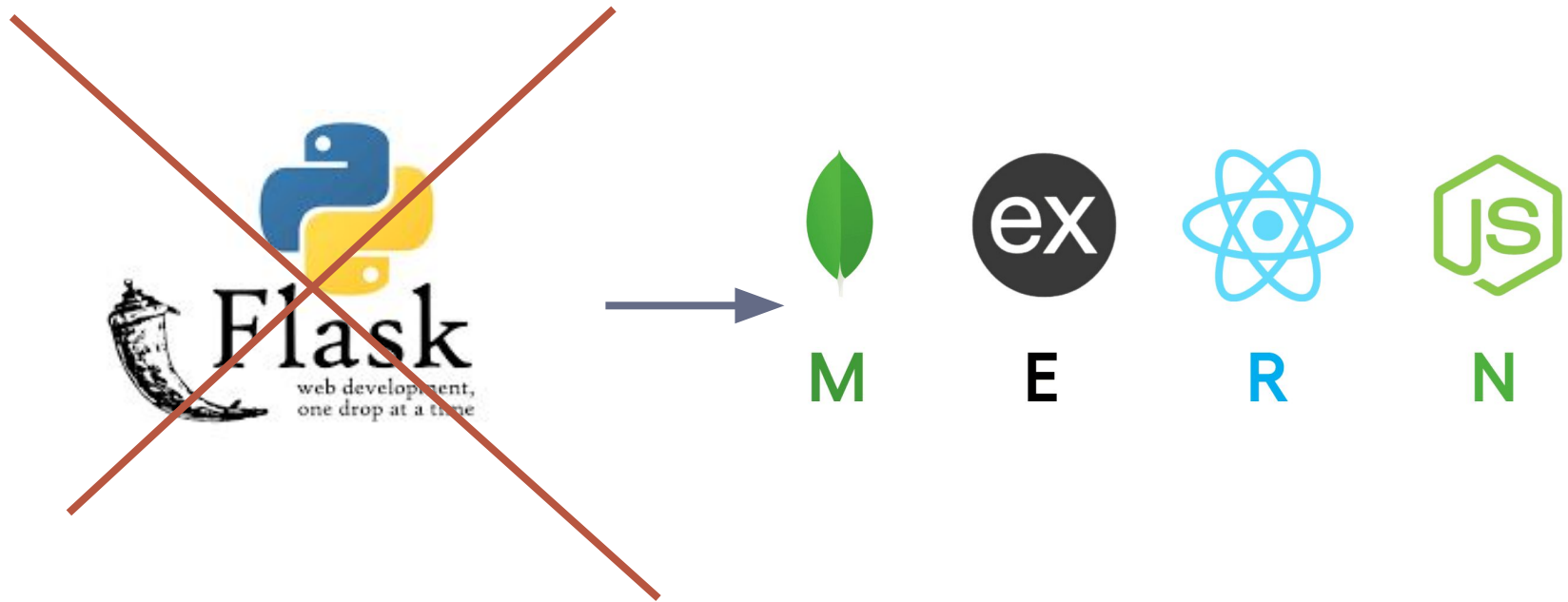


Pedro Moura, Jordan Synodis

Matrix - Milestone 1

Task	Completion %	Pedro	Jordan	Todo
1. Compare and select technical tools	100%	50%	50%	none
2. "hello world" demos	100%	50%	50%	none
3. Resolve technical challenges	100%	40%	60%	Ask registrar for a possible dummy db
4. Compare and select collaboration tools	100%	50%	50%	none
5. Requirement Document	100%	25%	75%	none
6. Design Document	80%	75%	25%	User interface
7. Test Plan	80%	50%	50%	Add more tests for pending user interface design

Task 1: Compare and select technical tools



Task 2: “hello world” demos

The image displays two browser windows side-by-side. The left window shows a web application running on localhost:3000/register. It features a registration form with fields for Name (containing 'test1'), Email (containing 'asdasdasd'), and Password (containing 'enter password...'). A 'Submit' button is located below the form. The right window shows the MongoDB Atlas dashboard for a cluster named 'Cluster0'. The dashboard includes a sidebar with navigation options like Overview, Clusters, SERVICES, and SECURITY. The main content area displays 'Explore Your Data' with a list of actions: Find, Indexes, Aggregation, and Search. There are also buttons for 'Load a Sample Dataset' and 'Add My Own Data'.

**REACT APP
(LOGIN & REGISTER PAGE)**

127.0.0.1:5000

Search for Classes

econ All Days Search

- BUS 1301 - Basic Economics - MWF 1300-1350 - Capacity: 41/40
- BUS 2303 - Macroeconomics - MWF 1200-1250 - Capacity: 17/36
- BUS 2303 - Macroeconomics - MWF 1400-1450 - Capacity: 35/36
- BUS 2304 - Microeconomics - TR 0930-1045 - Capacity: 37/36
- BUS 2304 - Microeconomics - TR 1100-1215 - Capacity: 36/36
- BUS 3304 - Sports Economics - TR 1400-1515 - Capacity: 12/30
- BUS 4426 - Environ and Resource Econ - M 1700-1940 - Capacity: 10/14
- BUS 5421 - Managerial Economics - W 1700-1940 - Capacity: 11/28
- BUS 5426 - Enviro & Resource Economics - M 1700-1940 - Capacity: 8/14
- CVE 4000 - Engr Econ and Planning - TR 1530-1645 - Capacity: 18/30
- CVE 5062 - Stat Econ Methods - TR 0800-0915 - Capacity: 9/16
- HUM 2332 - Amer Hist Recons to Pres - MWF 1200-1250 - Capacity: 26/25
- HUM 2332 - Amer Hist Recons to Pres - MWF 1300-1350 - Capacity: 25/25
- HUM 2332 - Amer Hist Recons to Pres - TR 1230-1345 - Capacity: 24/24

Your Weekly Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM - 9:00 AM		CVE 5062 Stat Econ Methods		CVE 5062 Stat Econ Methods	

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12:00 PM - 1:00 PM					
1:00 PM - 2:00 PM		BUS 3304 Sports Economics		BUS 3304 Sports Economics	
2:00 PM - 3:00 PM		BUS 3304 Sports Economics		BUS 3304 Sports Economics	
3:00 PM - 4:00 PM		BUS 3304 Sports Economics		BUS 3304 Sports Economics	
4:00 PM - 5:00 PM	BUS 5426 Enviro & Resource Economics				
5:00 PM - 6:00 PM	BUS 5426 Enviro & Resource Economics				

Current Schedule

- BUS 5426 - Enviro & Resource Economics - M 1700-1940 [Remove](#)
- CVE 5062 - Stat Econ Methods - TR 0800-0915 [Remove](#)
- BUS 3304 - Sports Economics - TR 1400-1515 [Remove](#)

01:06 -00:56

Task 3: Resolve technical challenges

The screenshot displays a Visual Studio Code editor interface. The Explorer sidebar on the left shows a project named "SENIOR DESIGN" with several files, including "programs.json" which is currently selected. The main editor window shows the content of "programs.json", which is a JSON object representing course requirements. The JSON structure includes a "semesters" array with two entries: "Fall (16 credit hours)" and "Spring (18 credit hours)". Each semester entry contains a "courses" array of course names. The terminal window at the bottom shows the execution of a Python script named "scrapeRequirements.py", which has completed its execution with a 100% success rate. The terminal output includes the command "python3 scrapeRequirements.py" and the progress "Scraping programs: 100%".

```
{
  "semesters": [
    {
      "program_name": "Computer Science, B.S.",
      "semesters": [
        {
          "semester": "Fall (16 credit hours)",
          "courses": [
            "COM 1101 Composition and Rhetoric",
            "CSE 1001 Fundamentals of Software Development 1",
            "CSE 1101 Computing Disciplines and Careers 1",
            "CSE 1400 Applied Discrete Mathematics",
            "or",
            "MTH 2051 Discrete Mathematics",
            "FYE 1000 University Experience",
            "",
            "MTH 1001 Calculus 1",
            "or",
            "MTH 1010 Honors Calculus 1"
          ]
        },
        {
          "semester": "Spring (18 credit hours)",
          "courses": [
            "COM 1102 Writing About Literature",
            "CSE 1002 Fundamentals of Software Development 2",
            "CSE 2120 Computer Organization and Machine Programming",
            ""
          ]
        }
      ]
    }
  ]
}
```

```
jordan@Jordans-Favorite Senior Design % python3 scrapeRequirements.py
Scraping programs: 100% | 219/219 [02:29<00:00, 1.46it/s]
jordan@Jordans-Favorite Senior Design %
```

EXPLORER

- SENIOR DESIGN
 - classScheduler
 - classSchedulerDemo
 - fit.scheduleplanner.github.io
 - classes.json
 - programURLS.json
 - scrapeClasses.py
 - scrapeRequirements.py
 - validLinkGrabber.py

```
33 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7199",
34 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7201",
35 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7180",
36 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7193",
37 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7203",
38 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7204",
39 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7206",
40 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7207",
41 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7207",
42 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7202",
43 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7181",
44 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7223",
45 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7224",
46 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7226",
47 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7228",
48 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7227",
49 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7230",
50 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7231",
51 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7229",
52 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7232",
53 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7234",
54 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7235",
55 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7233",
56 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7236",
57 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7238",
58 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7240",
59 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7237",
60 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7241",
61 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7242",
62 "https://catalog.fit.edu/preview_program.php?catoid=18&popid=7243"
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Jordan@Jordans-Favorite Senior Design % python3 validLinkGrabber.py
Testing Links: 100%
Valid URLs saved to programURLS.json
Jordan@Jordans-Favorite Senior Design %
```

EXPLORER

- SENIOR DESIGN
 - classScheduler
 - classSchedulerDemo
 - fit.scheduleplanner.github.io
 - classes.json
 - programURLS.json
 - scrapeClasses.py
 - scrapeRequirements.py
 - validLinkGrabber.py

```
1758 {
1759   "semesters": [
1760     ]
1761   },
1762   "program_name": "Computer Science, B.S.",
1763   "semesters": [
1764     {
1765       "semester": "Fall (16 credit hours)",
1766       "courses": [
1767         "COM 1101 Composition and Rhetoric",
1768         "CSE 1001 Fundamentals of Software Development 1",
1769         "CSE 1101 Computing Disciplines and Careers 1",
1770         "CSE 1400 Applied Discrete Mathematics",
1771         "or",
1772         "MTH 2051 Discrete Mathematics",
1773         "FYE 1000 University Experience",
1774         "",
1775         "MTH 1001 Calculus 1",
1776         "or",
1777         "MTH 1010 Honors Calculus 1"
1778       ]
1779     },
1780     {
1781       "semester": "Spring (18 credit hours)",
1782       "courses": [
1783         "COM 1102 Writing About Literature",
1784         "CSE 1002 Fundamentals of Software Development 2",
1785         "CSE 2120 Computer Organization and Machine Programming",
1786         ""
1787       ]
1788     }
1789   ]
1790 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Jordan@Jordans-Favorite Senior Design % python3 scrapeRequirements.py
Scraping programs: 100%
Jordan@Jordans-Favorite Senior Design %
```

Task 4: Compare and select collaboration tools



Task 5: Requirements

Functional Requirements



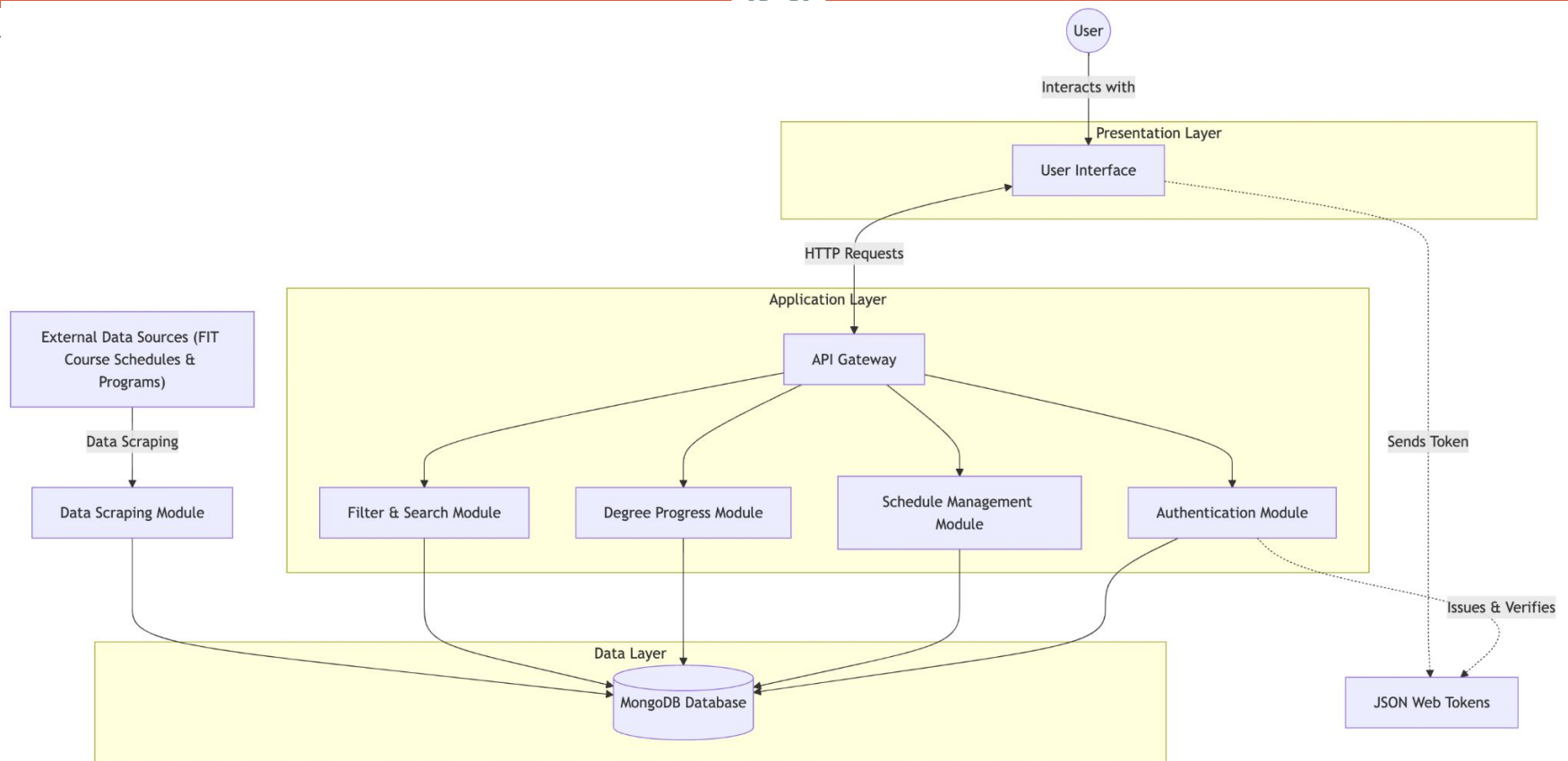
- **Add/remove classes**
View classes and manage time conflicts
- **Prerequisite checking**
Checks if requirements have been met
- **Class filtering**
Narrows down searches
- **Progress tracking**
Depicts progress towards program

Non-Functional Requirements



- **Quick processing times**
- **User data should be stored with encrypted passwords**
- **User interface would be easy to navigate**
- **Contextual help should be provided throughout application**

Task 6: Design



Task 7: Test Plan



Test every possible combination of inputs. Some edge cases...

- **Adding the same class, but different time/section**
- **Applying filters that contradict each other**
- **Applying filters that generate no results**
- **Uploading a file that is not a CAPP Degree Evaluation**

Matrix - Milestone 2

Task	Pedro	Jordan
Implement, test, and demo traversing the interface	50%	50%
Implement, test, and demo loading classes	50%	50%
Implement, test, and demo loading the CAPP Degree Evaluation	50%	50%
Implement, test, and demo accessing the program checklist	50%	50%
Design Document	75%	25%
Test Document	50%	50%