MICHIGAN STATE UNIVERSITY

Alpha Presentation

AMAP

The Capstone Experience

Accenture

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From Students…
…to Professionals

Department of Computer Science and Engineering
Michigan State University
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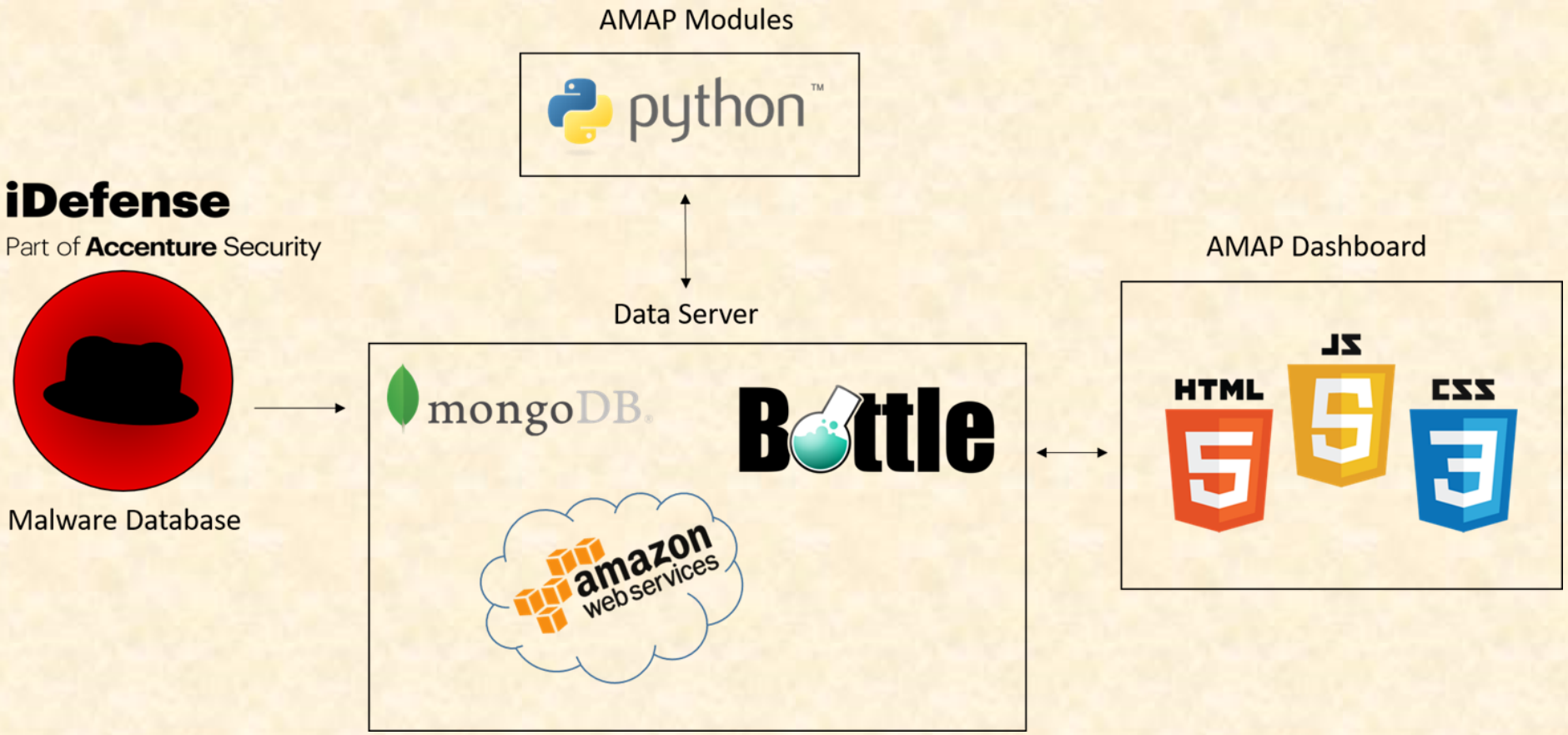
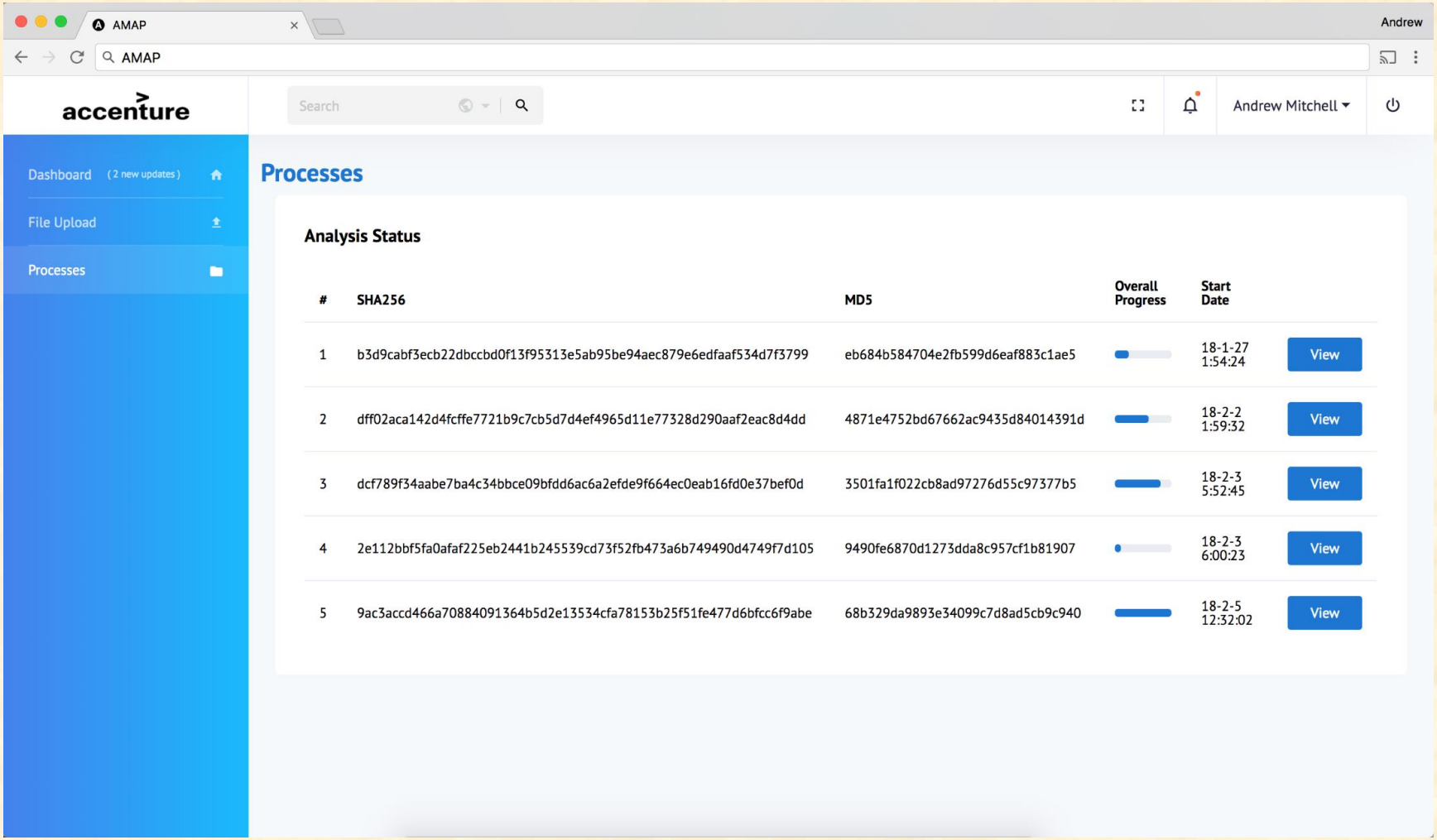
Project Overview

- Automated Malware Analysis
- Wizard Style UI
- High Volume Testing in Multithreaded Environment

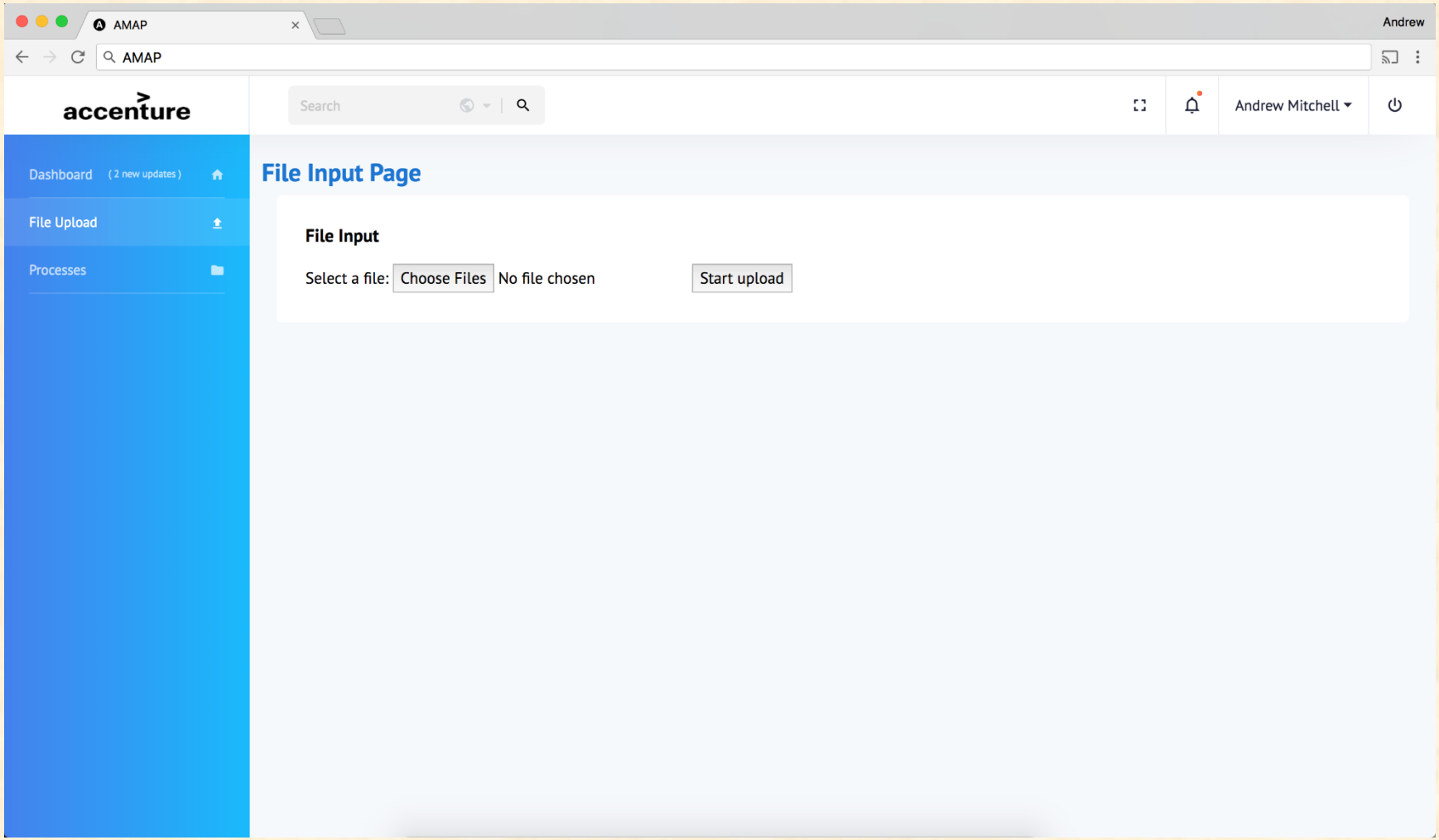
System Architecture



Current Process Status Page



File Upload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Search
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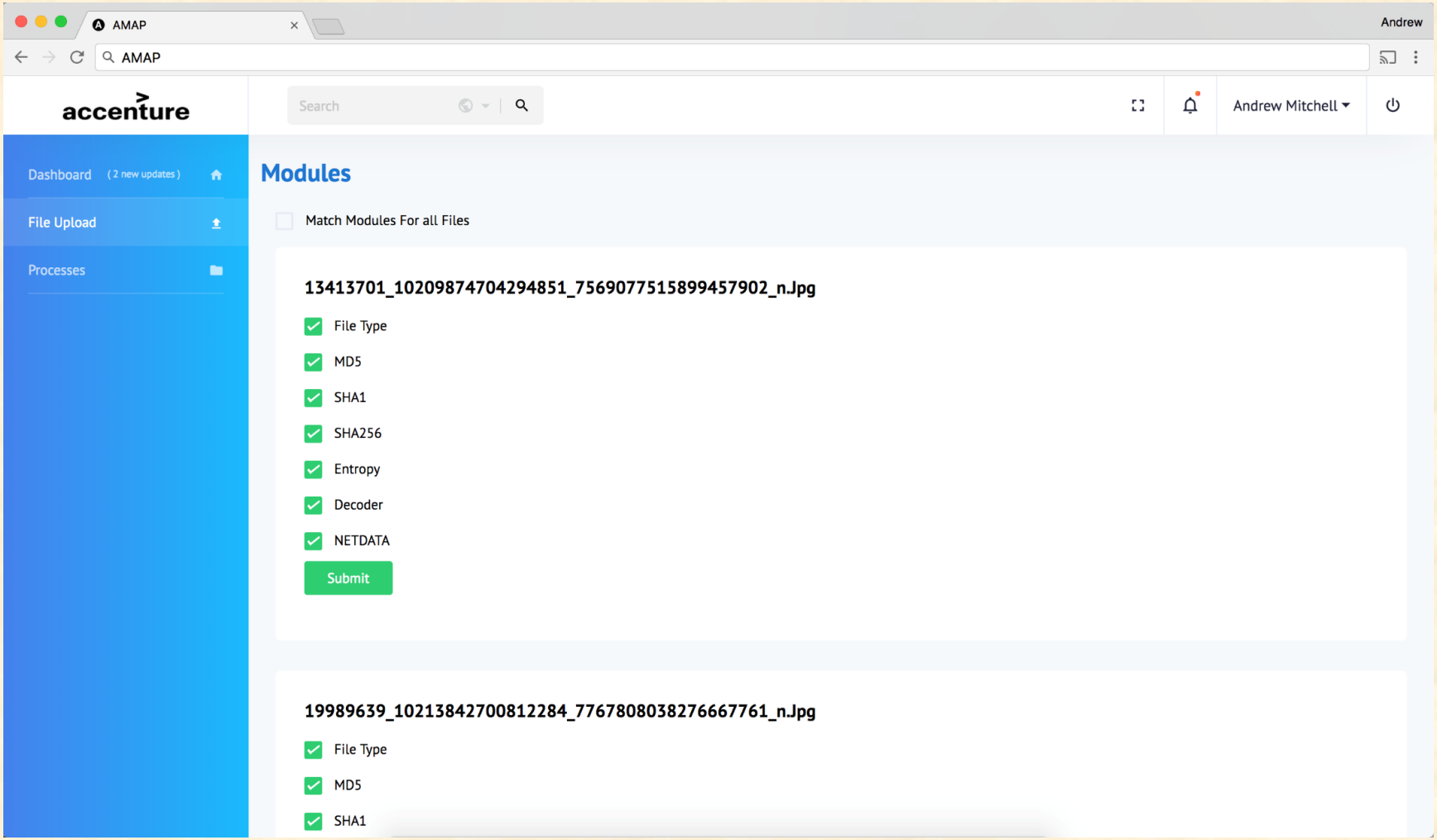
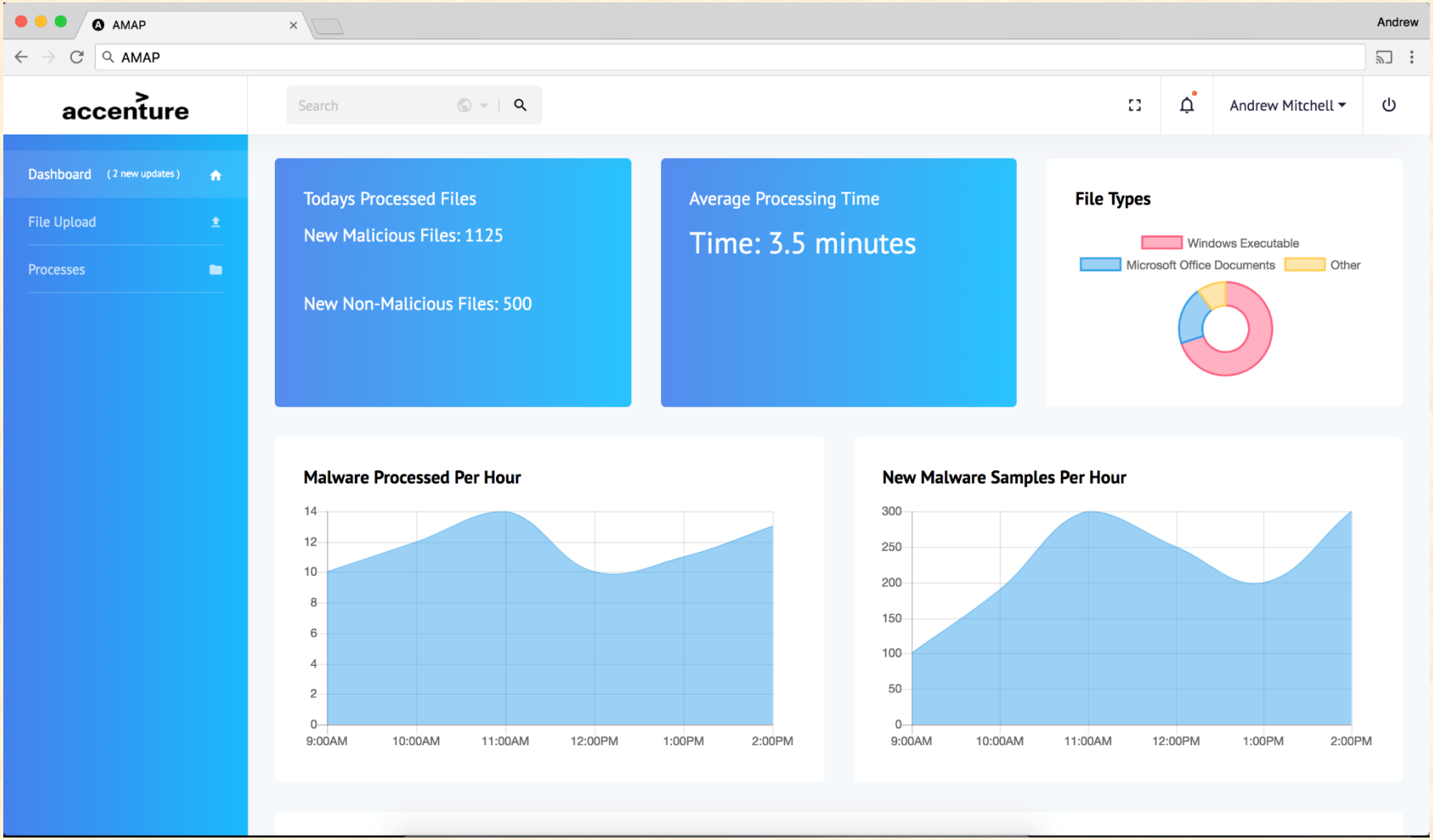
Dashboard (2 new updates)
File Upload
Processes
File Input Page
File Input
Select a file: Choose Files No file chosen
Start upload

Module Selection Page



Dashboard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Dashboard (2 new updates)
File Upload
Processes
Todays Processed Files
New Malicious Files: 1125
New Non-Malicious Files: 500
Average Processing Time
Time: 3.5 minutes
File Types
Windows Executable
Microsoft Office Documents
Other
Malware Processed Per Hour
14
12
10
8
6
4
2
0
9:00AM
10:00AM
11:00AM
12:00PM
1:00PM
2:00PM
New Malware Samples Per Hour
300
250
200
150
100
50
0
9:00AM
10:00AM
11:00AM
12:00PM
1:00PM
2:00PM

What's left to do?

- Add More Dynamic Analysis Modules
- Add More Information to Dashboard Page
- Create Login Page
- Write and Pull Malware Information to/from iDefense Database

Questions?