Phase 1 Report

Screenshot Capturing System

CMSC 495

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Milestone schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **Developers** | **Task start date** | **Completion date goal** | **Status** |
| Implement screenshot capturing for multiple websites | Evan Troutt | November 16 | November 22 | Complete |
| Implement HTML based emails sent to users | Evan Troutt | November 18 | November 23 | Not started |
| Implement screen captures email view | Evan Troutt | November 19 | November 25 | Not started |
| Implement functionality to capture screenshots at regular intervals | Evan Troutt | November 20 | November 24 | Complete |
| Implement add/edit users | Evan Troutt | November 22 | November 27 | Partially complete |
| Implement add/edit websites | Evan Troutt | November 23 | November 28 | Partially complete |
| Implement error/exception logging | Evan Troutt | November 25 | December 2 | Not started |
| Implement screenshot history view | Evan Troutt | November 28 | December 6 | Partially complete |

As you can see, some milestones are ahead of schedule, while others are behind schedule. So overall, I am roughly on schedule. The application compiles and runs and fulfills its basically functionality - one can add users(although there is no authentication yet), add websites, and the program will at regular intervals open the added websites in a browser window and screenshot them. One can view all previous screenshots for a given user and a given website.

Problems

There have been no real problems so far, only challenges from having to learn systems and techniques I hadn't previously had experience with. For example, I had never used MongoDB so I had to familiarize myself with it. Processing POST and GET requests with Java was also new, and I had to do some special configuration for serving static resource files like images.

Changes to previous documents

The following updates were made to the Project Plan document:

|  |  |
| --- | --- |
| **Location** | **Updated content** |
| 1.4.1, Methods, Tools and Techniques | * Operating System - Ubuntu 20.04 * Development Environment - IntelliJ IDEA * Programming language - Java, HTML/CSS * Code version control - Github * Debugger - IntelliJ IDEA debugger * SQL - MongoDB |
| 2.2.4, Operating Environment | The environment in which the Screenshot Capturing System software will operate will be Windows, Mac, or Linux operating systems. |
| 2.3.3, Software Interfaces | Client Operating Systems:   * Windows * Mac * Linux   Client Application:   * Any web browser   Server Application:   * Java with JRE 8 or above * MongoDB * Maven |
| 2.3.4, Communication Interfaces | Network software and protocols needed for systems to communicate:   * TCP/IP * HTTP/HTTPS * SMTP |

Evaluation

My assessment of the project decision-making so far has mostly been positive. However I believe there's a possibility we decided to include too many features. We may need to scale back the functionality of the application slightly, considering that there is only one developer working on the project.