Phase 2 Report

Screenshot Capturing System

CMSC 495

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Milestone schedule

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| --- | --- | --- | --- | --- |
| **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 | Complete |
| 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 | Complete |

I am roughly on schedule. The application now has user authentication, and the ability to create new users. There is now an admin user. Upon logging in as the admin user, the actual screenshot-taking part of the application starts. Upon logging out as admin, it stops. The admin will also be able to view error logs. Additionally, I implemented automated email sending when a screenshot is taken, although right now the emails usually go to the spam folder.

Problems

This week I scrapped most of the code and rewrote the application using Spring Boot, because I need to be familiar with it for my job. I had never written a Spring Boot application before so this of course was a challenge. This is a problem of my own making. But I did manage to pull it off. The proposed feature of users being able to change the time interval at which each subscribed site gets screenshots taken, seems impractical to me. In a real-world setting the server software would be running in many instances so it wouldn't be much of an issue to have many users subscribed to many sites with many different intervals of screenshot taking. But in our case we're running both the client and server application in a single instance so the logistics get pretty difficult. So I'm probably going to scrap that feature and just have a single interval for which the sites get captured. I'll also probably scrap the feature of users being able to edit the emails they get sent, it just seems unnecessary.

Changes to previous documents

The one member of the team that has a working copy of the project plan has not been responding to attempts to communicate. So I can't change the document but if I could, here's what I would change:

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| Location | Updated content |
| 1.4.1, Methods, Tools and Techniques | * Operating System - Ubuntu 20.04 * Development Environment - IntelliJ IDEA * Programming language - Java with Spring, XML, HTML/CSS * Code version control - Github * Debugger - IntelliJ IDEA debugger * SQL - MongoDB |
| 2.3.3, Software Interfaces | Client Operating Systems:   * Windows * Mac * Linux   Client Application:   * Any web browser * Chrome(needs to be installed on computer for automated browser)   Server Application:   * Java with JRE 11 or above * MongoDB * Maven * Spring |
| 2.4.1.2, Front end of Screenshot Capturing System shall allow user to Add/edit/View User Email | Delete this. |
| 2.4.1.3 Front end of Screenshot Capturing System shall allow user to View  Screenshot Captured Email | Delete this. |
| 2.4.1.4 Front end of Screenshot Capturing System shall allow configuration  setting | Delete this. |

Evaluation

I have no changes to the previous week's evaluation. Thanks.