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## EE/CprE/SE 491 WEEKLY REPORT 04

Feb 20 – Feb 26

Group number: 3

Project title: *Small Equipment Locker*

Client &/Advisor: *Matthew Post*

Team Members/Role: *Laura Mejía, Ben Johnson, Camille Cramer, Ainara Machargo del Rio, and Jon González*

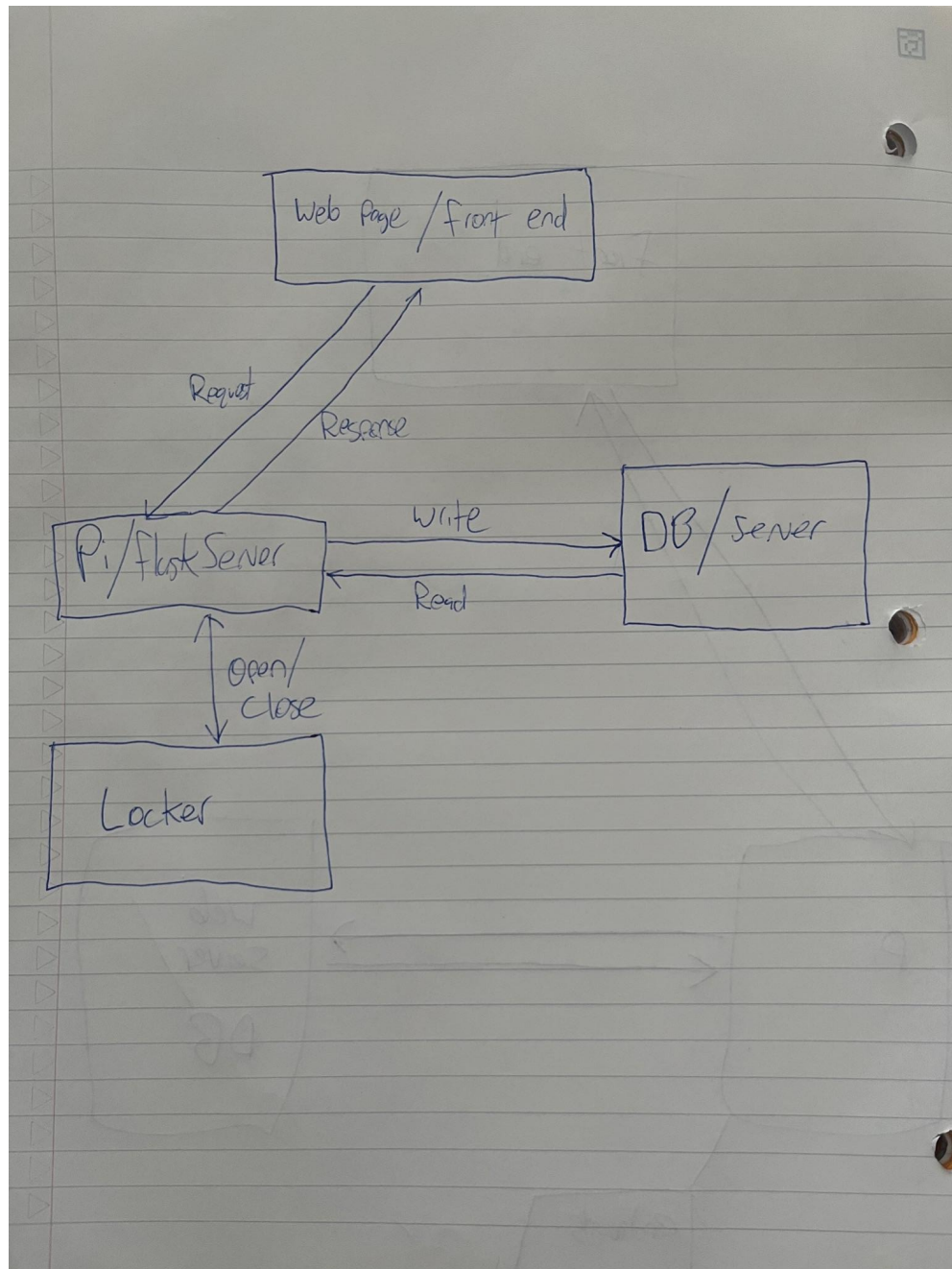
(All the above information should be there in each weekly report. The format/color scheme etc need not be the same. However, please remove everything that is in a bracket from your final submission. These are just part of the template and need not be a part of the report.)

o **Weekly Summary**

This week, the team had a meeting after class to discuss our next steps. We went over the Use Case diagram for our report, and discussed how we would divide up the work for the backend and frontend of the project. The backend team met up during the week to discuss how to handle requests to open and close the door of the locker. They decided on running a flask server on the pi, that waits for a request and opens/ closes the door when it receives one. We also added an HTML page and a few flask server API endpoints to use in our demo.

o **Past week accomplishments** *(Please describe/summarize as to what was done, by whom, when and, collectively as a group. This should be about a paragraph or two in length. Bulleted points are acceptable as well. Please keep only your technical details related to your project. Figures, schematics, flow diagrams, pseudocode, and project related results are acceptable, but please ensure that they are legible (clear enough to read) and to provide an explanation. If researching a topic, please add a few details about what was learned and how it is relevant to the project. If two or more people worked on a single task, be sure to distinguish how each member contributed to the task. Specific details relating to the assistance provided to other members may be included here. **Do not include classwork, such as individual reflection assignments, and group meetings as part of your duties.**)*

- Jon González: Worked on a home page made with html and css for the website with a button so that the team can test the solenoid of the locker. Reviewed the flask library and how to set it up.
- Ben Johnson: Started working on python flask server to run on the pi in order to interact with the hardware. Added multiple API endpoints to test our ability to remotely open and close the locker doors. Also created a high level system overview that we will implement in our project.



- Ainara Machargo del Rio: Worked on possible database schema designs and backend designs.
  - Camille Cramer: Worked on obtaining pi for project through advisor. Helped plan out backend design.
  - Laura Mejia: Created login and main pages using ISU HTML template.
- o **Pending issues** (If applicable: Were there any unexpected complications? Please elaborate.)
- Jon González: No issues pending, will start working on a “rough draft” for the front-end of the web app as soon as possible.
  - Ainara Machargo del Rio: Finalize database schema design and implement diagrams into Figma.
  - Ben Johnson: Waiting on getting access to the hardware in order to test the flask API and if it is able to remotely open and close the locker.

- o **Individual contributions** (Creating this section is optional, but it is **Required to include the “Hours Worked for the Week” and their “Total Cumulative Hours” for the project for each member somewhere relevant in your report. Your individual weekly hours should be at a minimum of 6-8 hours for this course. So please manage your time well. Also, ensure that individual contributions support your claim to the weekly hours. Be honest with the reports.**)

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b> (Quick list of contributions. This should be short.)	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Jon González	<ul style="list-style-type: none"> <li>• Made a Home Page draft for our website</li> <li>• Reviewed the flask library</li> </ul>	3	14
Ben Johnson	<ul style="list-style-type: none"> <li>• Created high level system design</li> <li>• Started flask server to run on Pi</li> <li>• Added endpoints to open/close the locker</li> </ul>	4	16
Camille Cramer	<ul style="list-style-type: none"> <li>• Emailed advisor</li> <li>• Researched the tools Jacob recommended</li> <li>• Started planning backend implementaion</li> </ul>	4	15
Ainara Machargo del Rio	<ul style="list-style-type: none"> <li>• Researched on backend tools</li> <li>• Worked on database schema design</li> </ul>	3	14
Laura Mejia	<ul style="list-style-type: none"> <li>• Created login and main pages using ISU HTML template</li> </ul>	3	13

- o **Plans for the upcoming week** (Please describe duties for the upcoming week for each member. What is(are) the task(s)?Who will contribute to it? Be as concise as possible.)
  - Our goal is to have a front-end and back-end that can communicate with each other and send a request to open and close the locker by Tuesday, March 7th. This means the backend team needs to be able to receive a request and open/close the locker doors remotely and that the frontend team needs to be able to hit a button and call the API endpoints to send that request.
  - We are meeting with Matthew on Tuesday, February 28th to discuss further our next steps as a team and update him on our progress.

o Use Case Diagram:

