**Progress Report**

**- Increment 3 -**

**Group #Y**

# Team Members

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1. **Project Title and Description**

File Portal - A lightweight web application that allows transmission of data/files between two

computers, or allows a user to drop a file, with the option to encrypt and/or lock it with a password and send

an invite to retrieve the file to another user with a link or email.

1. **Accomplishments and overall project status during this increment**

We finished all the main features we had set out to do. We finished implementing user management with JSON Web Tokens. We enabled users to upload files and use our platform as a file locker/Dropbox. We also implemented an email service which sends out an email to users whenever a file is shared with them.

We also deployed every service we implemented. We deployed our Go backend logic, frontend, and a PostgreSQL cluster in a Digital Ocean droplet, and use Digital Ocean Spaces for object storage.

This was an extremely successful increment – we accomplished far more than we did in the previous two combined, and we finished everything we had originally planned on doing. The project is completed!

1. **Challenges, changes in the plan and scope of the project and things that went wrong during this increment**

Much like in Increment 2, we still felt the learning curve of Go. We feel far more confident in our skills now, but we still had to stop and double-check what we were doing quite often. Besides that we also had some trouble deploying our services, with most problems arising out of missing environment variables or configurations.

1. **Team Member Contribution for this increment**
   1. Gabriel wrote the Progress Report.
   2. Gabriel wrote the RD document except for the second diagram, which was designed by Leonardo.
   3. Gabriel wrote the IT document.
   4. Irfan wrote the email service in Go to let users know someone shared a file with them. Leonardo wrote most of the code for this increment: he implemented most of the user management logic, the file upload feature and all the data models and queries related to it, and the file sharing feature sa well as the data models related to it.
   5. Gabriel filmed the video presenting this project.
2. **Stakeholder Communication**

Dear Stakeholders,

The File Portal team is pleased to share that we have completed the File Portal project and fulfilled every specification provided to us.

Over the last month we finished implementing the user management features. Those include creating an account, signing into an existing account, and the “Forgot my password” feature. We also implemented the “file locker” feature, which allows users to upload their files to our platform and leave them saved there. Finally, we implemented the file sharing feature, which allows users to share their uploaded files with other users. We even made an email service that notifies users when a file was shared with them.

We have finished deploying the entire project. The Go backend logic, frontend, and a PostgreSQL cluster are hosted in a Digital Ocean droplet, and the Digital Ocean Spaces platform was used for object storage.

We faced some challenges during this final stretch. Our team was still learning about best practices when designing backends with Go, and we also faced some minor impediments during deployment – mostly due to mismatching configurations and environment variables.

Developing this project has been a challenging yet rewarding endeavor and we appreciate your trust in our team to develop such an important project. We hope to work together with you again in the future.

Please reach out to us to schedule a demo meeting where our team can take you through everything we have built and answer any questions you might have. Until then, our team has prepared a demo video which has is linked below.

We look forward to hearing back from you!

Thank you again for your support,

Group 21

1. **Link to video**

**https://youtu.be/9WqHaQpKOlk**