Project Thor

Team Members:

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Faculty Advisor:

Name	Email
Sid Bhattacharyya	sbhattacharyya@fit.edu

Client:

Name	Email
Amitabh Nag - Aerospace, Physics and Space Sciences	anag@fit.edu

Current Progress of Milestone 6

Task	Adonay	Jared	Josh	Luke	Progress
1 Showcase poster	25%	25%	25%	25%	100%
2 Ebook page edits	25%	25%	25%	25%	100%
3 Update demos	25%	25%	25%	25%	100%
4 Complete documentation	25%	25%	25%	25%	100%
5 Create documentations for future teams and adaptations	25%	25%	25%	25%	100%
6 Format Raspberry Pi for portable use	0%	0%	50%	50%	90%
7 Add more lightning data to generate key page	0%	0%	0%	100%	100%

5. Discussion - Accomplishments

1. Analyze the results of the web app testing as bug reports arrive:
   a. Test Documentation is being used to track current bugs and failures.
2. Corrected edits and reviewed with advisor
3. Demo video was created and Generate Key demo was updated to accommodate new items in task 7.
4. and 5. Developer manual was created for both the user perspective and the developer perspective. This includes many types of users for each perspective. The developer manual goes into detail about the functions and methods used to complete this project so far.
6. Raspberry Pi was published to a GitHub repository to be used by any configuration as stated in the developer manual. The write up for this will be turned in with the raspberry pi so a future group will be able to pick it up quickly.
7. 4 rows of lightning data are now shown which includes the highlighted sections of which were used to create the combination for encryption.

6. Discussion - Contributions

Luke Bonenberger:

Heavily updated Generate Key page, again, to add 4 rows of lightning strikes. The attributes used in the creation of the key combination include 1 column from each row and are highlighted. Additionally, the formatting of the Generate Key page was updated to accommodate the new structure. The final production version 2 of the Generate Key page was completed. Aided in developer manual construction.

Jared Blanco:

Created project team poster, consolidated and summarized team progress, recreated the system architecture diagram, data flow diagram, and focused on updated metrics for showing entropy data as well as a visualization of 'randomness'

Adonay Pichardo:

Performed final testing on database requirements.

Test Documentation updated. Created document to track results of all testing.

Josh Temel:

For this milestone I have completed writing both the Problem and Solution explanation documents as well as the ebook page. I helped Jared review the poster and I have run the Dieharder test suit on our data and am working on analyzing the resulting metrics.

7. Milestone 6 Plan

Task	Adonay	Jared	Josh	Luke
Showcase poster	25%	25%	25%	25%
Ebook page edits	25%	25%	25%	25%
Update demos	25%	25%	25%	25%
Complete documentation	25%	25%	25%	25%
Create documentations for future teams and adaptations	25%	25%	25%	25%
Format Raspberry Pi for portable use	0%	0%	50%	50%

8. Discussion & Lessons Learned

Update Demos: Recreated diagrams such as the system architecture diagram, the data flow diagram, and am implementing graphs showing latest metrics on entropy in order to easily explain the process behind generating these encryption keys and bringing them forward to our application.

Updated Poster:
        The poster has been updated and removed grammatical errors. We reduced some of the text and added clearer larger images in order to drive and increase interest. This also improves understand as a viewer can more easily understand the project faster.

Web App Test Plan:
        Unfortunately, there has been no class participation in helping to test our web application. However, Adonay has been able to run most of our acceptance test cases and we have learned of a few shortcomings in our project. The results and those shortcomings are posted in a Test Results doc that will be added to our project site.

Documentation:

Documentation is ready for team turnover. We created a developer manual and a separate document for the next group on how to resume our project on the raspberry pi. The developer manual was hard to make. We changed how some of our processes are in order to better and more clearly explain it within the developer manual. That is the whole purpose of the developer manual. The developer manual has to be useful and we want it to be as easy to use as possible. We included code segments and screenshots with explanations in order to make it as easy to use as possible.

9. Date(s) of Meeting(s) with Client:

Date	Topic
TBD	● Current progress and deliverables

10. Client feedback of current milestone

1.

11. Dates of Meeting with Faculty Advisor

Date	Topic
April 18, 2022	● Feedback for Milestone 6 ● Next steps

12. Faculty Advisor Feedback for Milestone 6

1. Dr. Sid mentioned that he liked to plan a meeting with the client to take place in the near future to update the client on our progress.

13. Approval from Faculty Advisor

"I have discussed with the team and approve this project plan. I will evaluate the progress and assign a grade for each of the three milestones."

Signature: _____ Date: _____

1. Evaluation by Faculty Advisor
   - Faculty Advisor: detach and return this page to Dr. Chan (HC 214) or email the scores to pkc@cs.fit.edu
   - Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Adonay	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Jared	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Josh	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Luke	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Faculty Advisor Signature: _____ Date: _____