Acme Case Study

By Group Marvel Knights

Project Requirement Analysis

Project Name: Acme

Agency: Group Marvel Knights

Project Sponsor: Dr. Mahbubur Rahman

Project Manager: Ali Ustunkol **Last Revision Date:** 12/09/2020

Project Status: Final

Prepared By: Group Marvel Knights

Project Scope:

Autopsy Management Report is a digital forensic application used for managing Forensic report. Capture data, analyze, generate, and view report. Display analytic graph for data analysis.

- Design the Autopsy report
- Develop the application
- Incorporate database search
- Use data mining technique and analyze report
- Generate and view report
- Analytical representation of report using Charts and graphs.

Project Requirement Analysis

2. Functional Requirements:

- Must use Autopsy Forensic Tools.
- Common Functions
- GUI Functions
- Reporting Functions
- Interface Functions
- Batch Functions
- Security Functions
- Accessibility
- Encryption

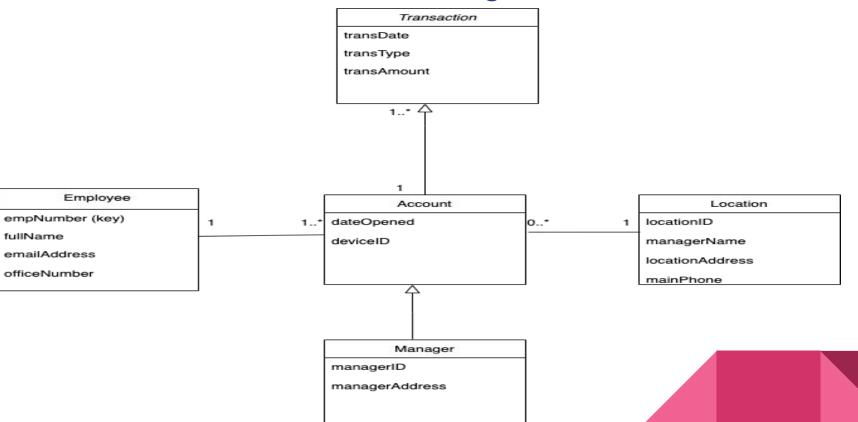
3. Nonfunctional Requirements:

- Easy and well-designed user interface.
- Should run on a desktop and laptop.
- High quality code and good code documentation.
- Data persistency.
- In addition, at least 5 correct test cases should be provided.

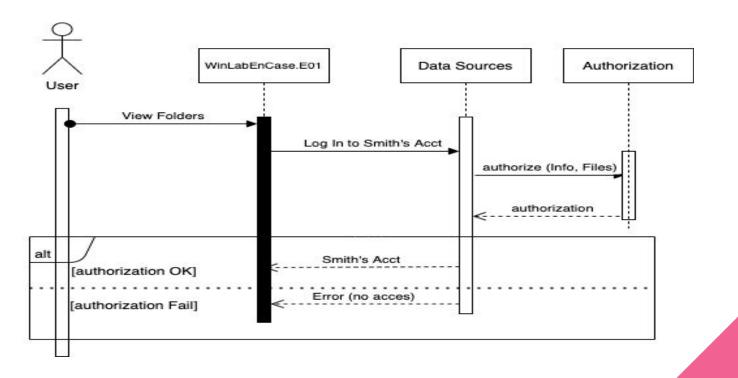
Technologies used

- Vue JS
- Node JS
- Mongo DB
- Eclipse IDE
- Docker for Deployment
- Jenkins for Testing

Class Diagram

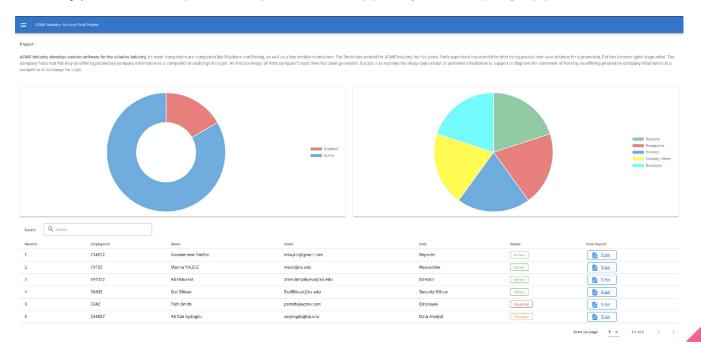


Sequence Diagram



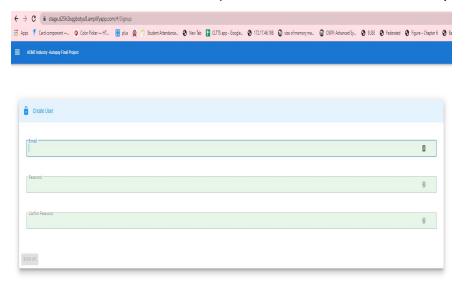
Prototype display

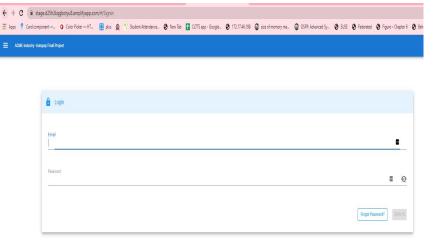
Prototype Link: https://stage.d25h2kqgbotyu8.amplifyapp.com



Authentication – Integrated Security Features

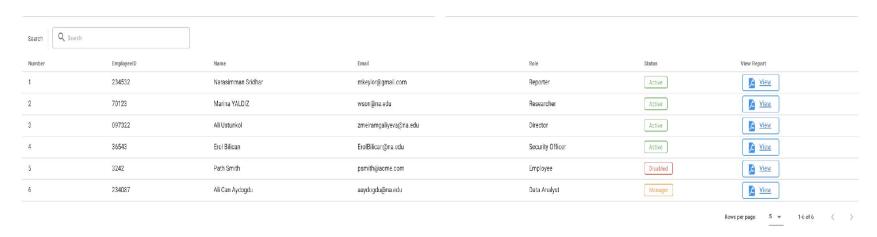
User authentication (User validation and admin profile)





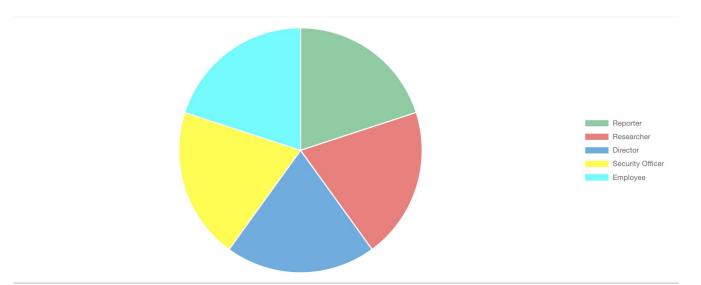
Report Information

Viewing all the reports, case manager can search by status (Name, Email, Role, Employee ID)



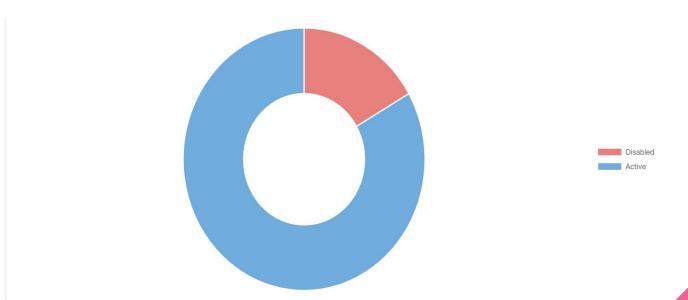
Duty Chart

Analytical graph data which gives a picture of all the duties



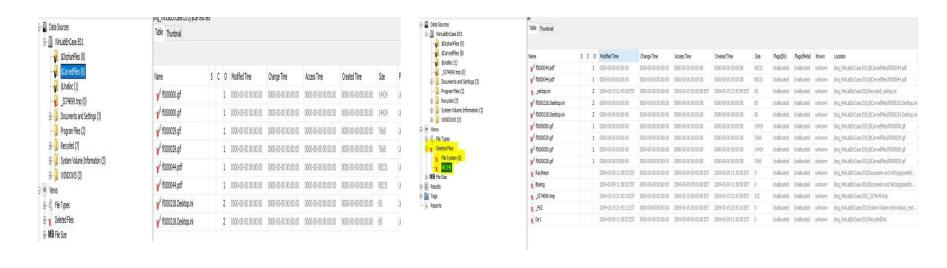
Active Report Chart

Active Report Chart shows active and inactive reports.

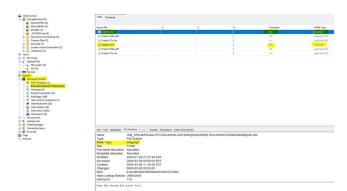


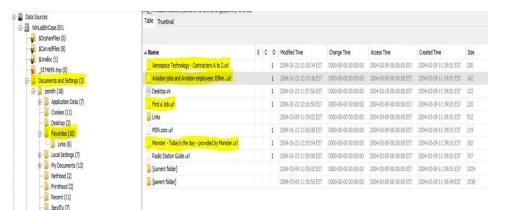
Autopsy Reports

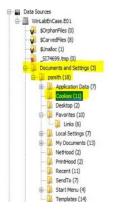
The Screenshots of Autopsy reports that we worked on.



Autopsy Reports







△ Name	S	С	0	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known
[current folder]				2004-03-09 11:39:02 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	1024	Allocated	Allocated	unknow
[parent folder]				2004-03-09 11:38:50 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:38:49 EST	1536	Allocated	Allocated	unknov
index.dat			1	2004-03-09 08:30:04 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	32768	Allocated	Allocated	unknov
psmith@ads.monster[1].txt			1	2004-01-23 12:08:18 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	99	Allocated	Allocated	unknos
psmith@cookie.monster[1].bxt			1	2004-01-23 12:08:20 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	110	Allocated	Allocated	unknov
psmith@google[1].txt			1	2004-01-23 12:12:46 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	130	Allocated	Allocated	unkno
psmith@monster[1].txt			1	2004-01-23 12:15:42 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	264	Allocated	Allocated	unkno
psmith@msn[1].txt			1	2004-01-23 12:08:02 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	230	Allocated	Allocated	unkno
psmith@pljb6.rmx.scd.yahoo[1].txt			1	2004-01-23 12:16:24 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	95	Allocated	Allocated	unkno
psmith@www.monster[1].txt			1	2004-01-23 12:08:18 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	72	Allocated	Allocated	unknov
psmith@www.rayjobs[2].txt			1	2004-01-23 12:11:10 EST	0000-00-00 00:00:00	2004-03-09 00:00:00 EST	2004-03-09 11:39:01 EST	158	Allocated	Allocated	unkno