

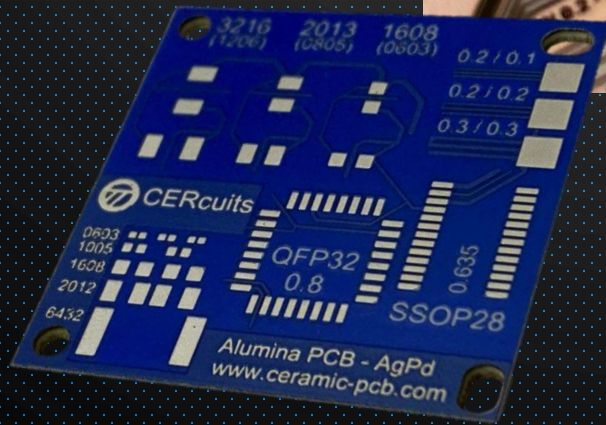
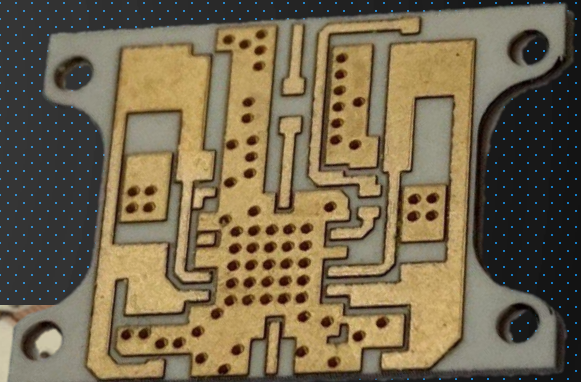
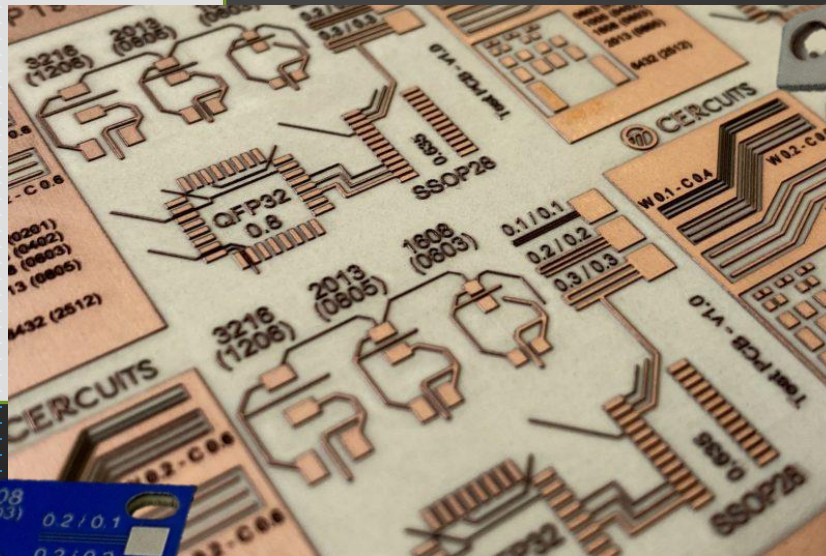
# PROJECT PLAN

INTERNSHIP AT  CERCUITS

By David Silva Troya



CERcuits is a company that specializes in ceramic PCB and substrates for prototypes & small series.





# STOCK MANAGEMENT SYSTEM



- ✓ An Automated Stock Management system to ensure greater control and accuracy in inventory management.
- ✓ The student is tasked with conducting a comprehensive analysis using the "should, could, nice to have" framework.
- ✓ Additionally, an easy-to-use system is needed for scanning materials on Android smartphones and computers to promptly update the database when a product is retrieved using QR codes.

# PLAN OF ACTIONS



1. Analysis of the requirements for the internship assignment or project.
2. Creation of the objectives to set a project planning and the time each objective will be completed.
3. Review, corrections and approval of the objectives and project plan.
4. Creation of task to complete each objective in the time proposed.
5. Execution of tasks to complete all the objectives.

# 1. ANALYSIS OF THE REQUIREMENTS FOR THE INTERNSHIP ASSIGNMENT OR PROJECT.

- ✓ Create a software in python for the Stock Management System.
- ✓ Software shall run in a virtual machine(VM) with Linux OS of the local server.
- ✓ Database for the software shall run in the VM of the local server.
- ✓ Software shall run in Desktop and Smartphones.
- ✓ Documentation of the software and related information.



## 2. CREATION OF THE OBJECTIVES TO SET A PROJECT PLANNING AND THE TIME EACH OBJECTIVE WILL BE COMPLETED.

### Objectives

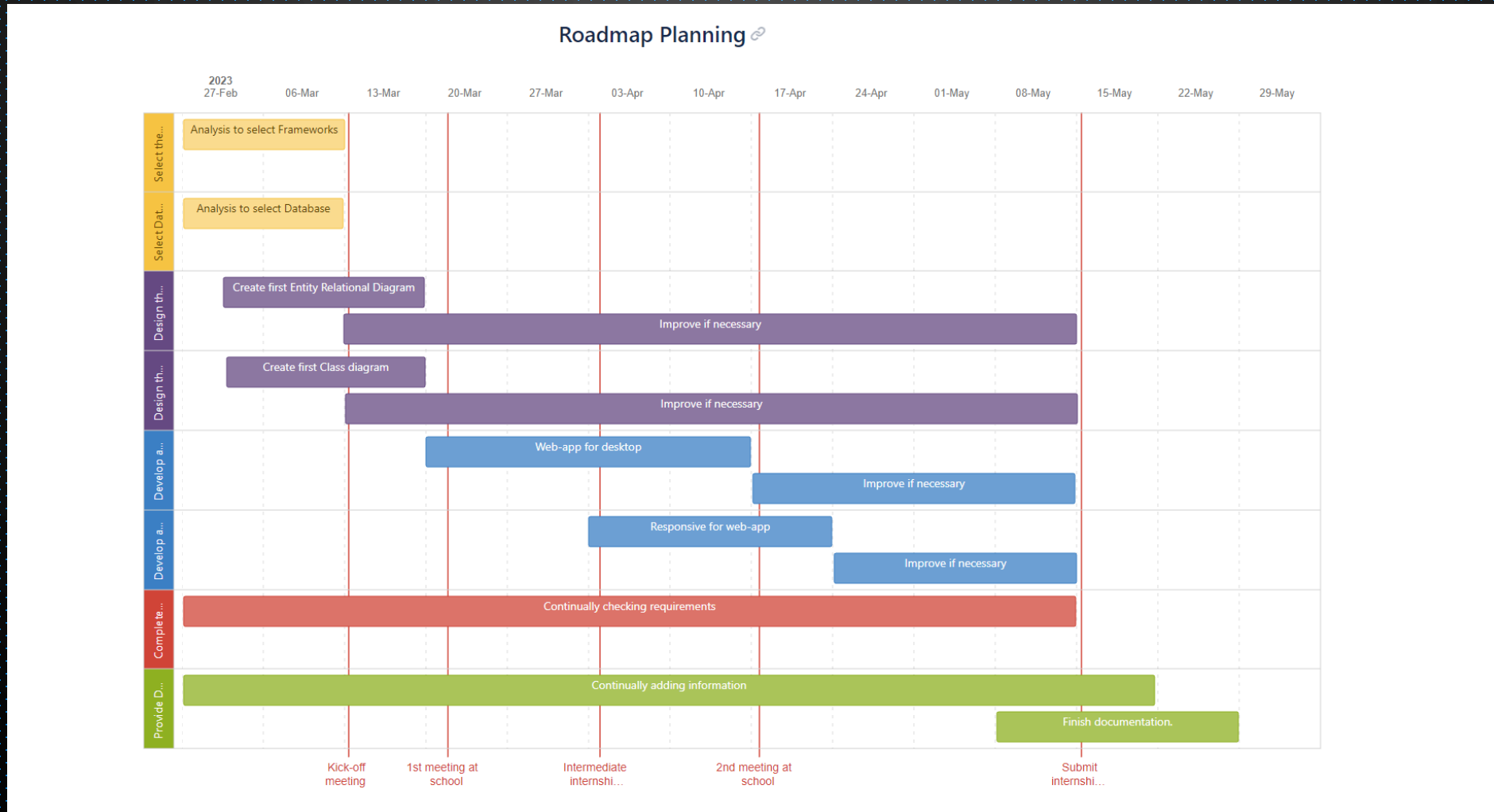
#### General Objective

- Develop a Stock Management System with automatic notifications for a better control of the company warehouse

#### Specific Objectives

- Select the frameworks to create the Stock Management System using Python as Program Language
- Select the Relational Database to be used in the Ubuntu Virtual Machine on the Server.
- Design the Relational Database for the Stock Management System.
- Design the Class Diagrams for the Stock Management System.
- Develop a web-browser version of the Stock Management System.
- Develop a mobile version of the Stock Management System.
- Complete the provided requirements from the company to the System.
- Provide Documentation of the Developed Stock Management System.

# 3. REVIEW, CORRECTIONS AND APPROVAL OF THE OBJECTIVES AND PROJECT PLAN



4. CREATION OF TASK TO COMPLETE EACH OBJECTIVE IN THE TIME PROPOSED

&

5. EXECUTION OF TASKS TO COMPLETE ALL THE OBJECTIVES

Jira Software Your work Projects Filters Dashboards Teams Apps Create

Stock management Software project

PLANNING

- Roadmap
- Backlog
- Board

DEVELOPMENT

- Code
- Project pages
- Checklist
- Add shortcut
- Project settings

Projects / Stock management

### STMA week 6,7,8,9

Web-Application with: - User Authentication. - User Authorization. - Desktop Web-App running in the Server. - Responsive of Web-App to be use in small devices. - Error handler sh

Q DS Epic

TO DO 4 ISSUES

- Responsive for web-app  
STMA-19
- Improve Class Diagram if necessary  
STMA-17
- Add Authorization to the web-app  
STMA-28
- Error 404 handler  
STMA-29

IN PROGRESS 1 ISSUE

- Develop Web-app for desktop  
STMA-18

DONE 3 ISSUES ✓

- Adding a singleton class for Showing Alerts (alert\_logger\_dbm.py)  
STMA-26 ✓
- Improve ERD if necessary  
STMA-16 ✓
- Add Authentication to the web-app  
STMA-27 ✓



# WHY AN STOCK MANAGEMENT SYSTEM?



CERcuits has experienced significant growth in recent years and requires an enhancement of its inventory system. The increasing difficulty of managing inventory manually as the company expands its client base, receives more orders, and deals with a wider range of products.

It is expected that the system address questions such as what products are available, their location, what needs to be ordered, when it needs to be ordered, and information regarding expiration dates.

# WHEN WILL BE DONE THE ASSIGNMENT

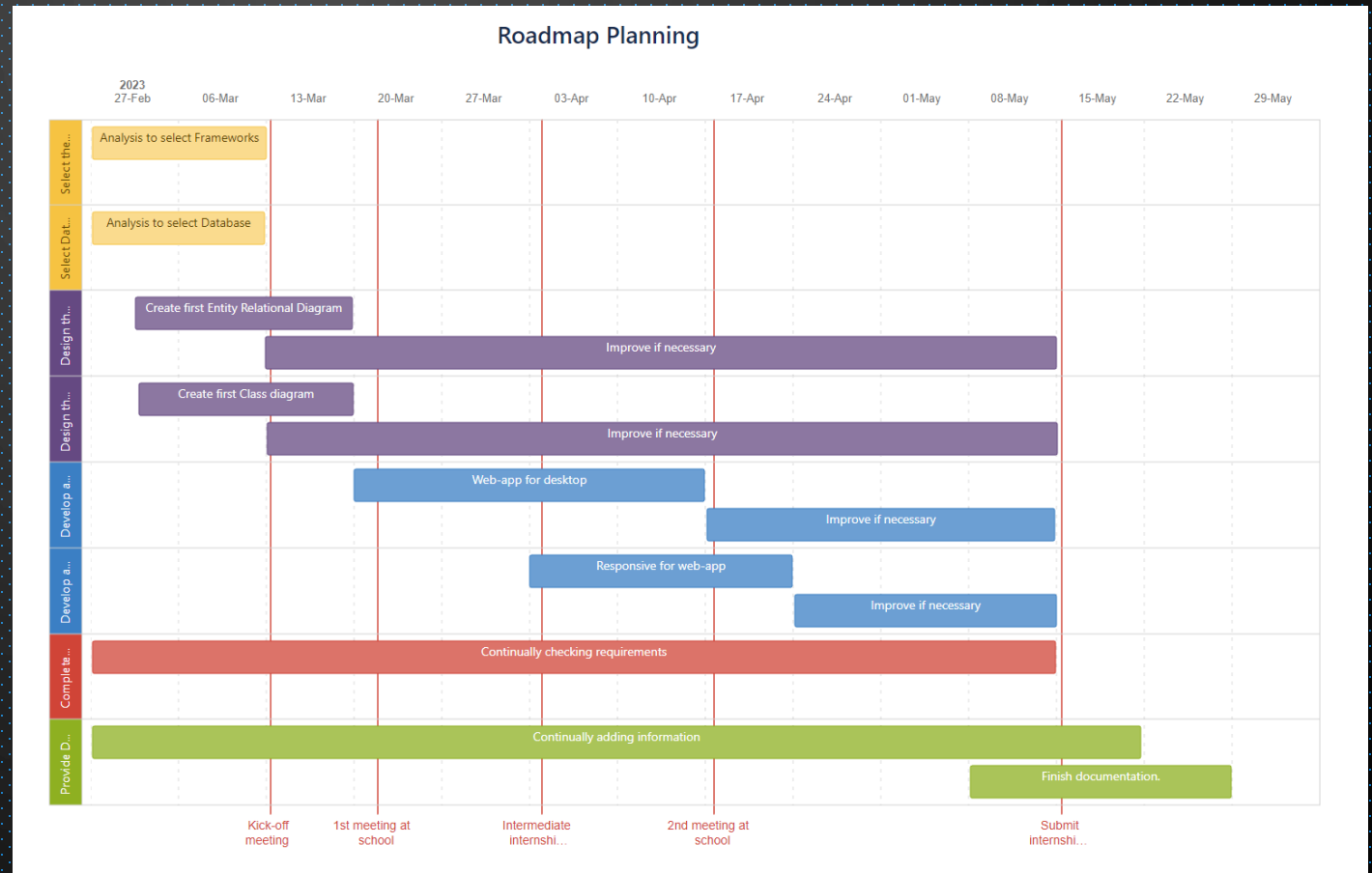
First 2 weeks for research, small testing and try outs to avoid problem in the local server.

After week 1 or 2, creation of the necessary diagrams for the software.

In the week 4 the development of the software based in the diagrams and requirements.

All over the time of the project will be check if the requirements are being accomplish and adding documentation.

In the final 3 week the documentation is checked and completed.



# COMMUNICATION

The image displays three overlapping screenshots of software development tools. The top screenshot shows the Atlassian Start dashboard for a project named 'Stock management', featuring a Kanban board with columns for 'TO DO 4 ISSUES', 'IN PROGRESS 1 ISSUE', and 'DONE 3 ISSUES'. The middle screenshot shows the 'Project pages' interface in Confluence, listing various diagrams and documents such as 'Unified Modeling Language (UML)', 'Communication Diagram', and 'Entity Relational Diagram (ERD)'. The bottom screenshot shows the Bitbucket 'Commits' page, displaying a list of commit messages, authors, and dates.

- ✓ Using Atlassian software: Jira, Confluence and Bitbucket.
- ✓ Jira for the tasks that will be done every week until reaching the goals which are the specific objectives.
- ✓ Confluence to write all the documentation of the project, like the UML diagrams, planning, frameworks selected, etc.
- ✓ Bitbucket for store and control of the software code from the project.
- ✓ Communication for questions about the project via teams or by person in the company.





**THANK YOU!**

CERCuits

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