

C-ALPHA

Team Members



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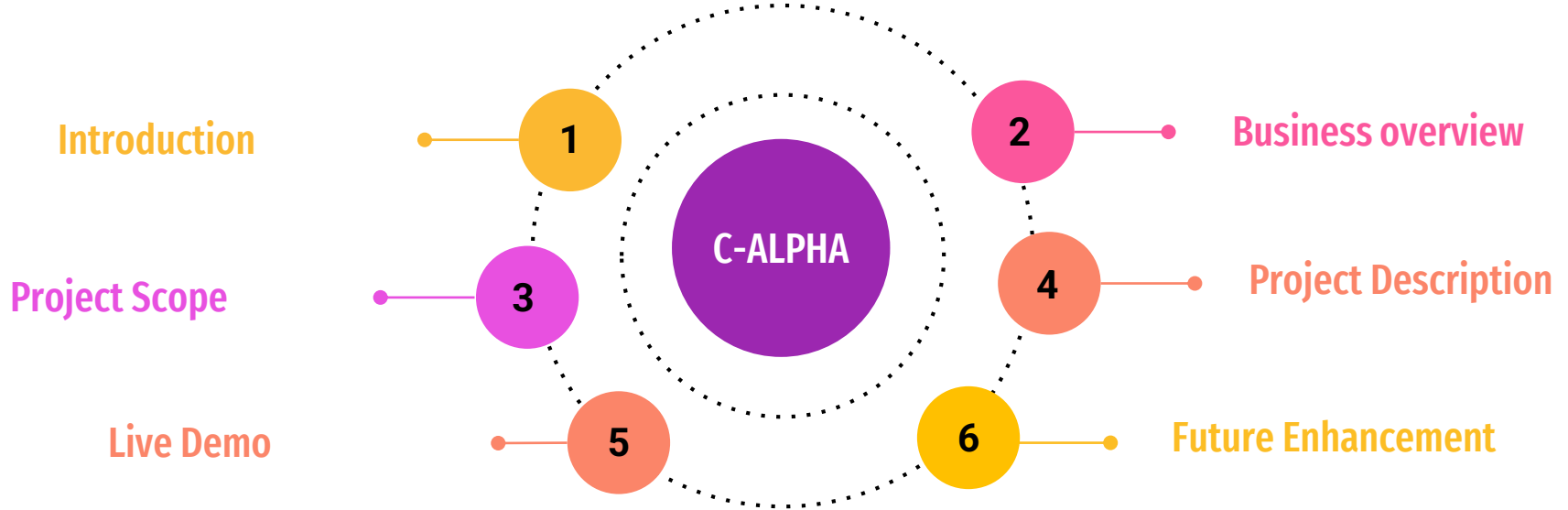
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1.Introduction:



1.1.Construction project management software

In the construction business, when you don't execute your plan well, things will slip through the cracks, literally! Watch your projects become a towering success using C-ALPHA Projects



1.2. Issues facing the construction industry



Web of dependencies:

- You often find yourself trapped in trying to track and manage never-ending dependencies



Time is money:

- You can't afford to postpone operations without huge expense overruns.
- Unmet deadlines often mean unplanned expenditures.

1.2. Issues facing the construction industry



What? Who? When?

- What's happening at the construction site right now?
- Who is supposed to ship the material?
- When is the meeting scheduled?



But he said so

- Multiple people work on a single project.
- Miscommunication can lead to serious flops when the right information isn't communicated to the right people at the right time.

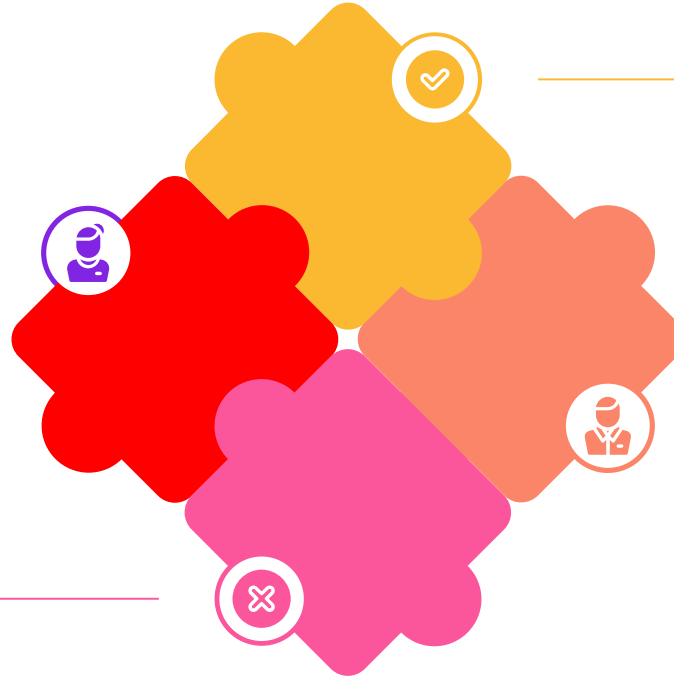
2. Business overview

Saving Time

It has more Productivity rate to make time schedule.

Free Open Source

Available Online .



Easy to use

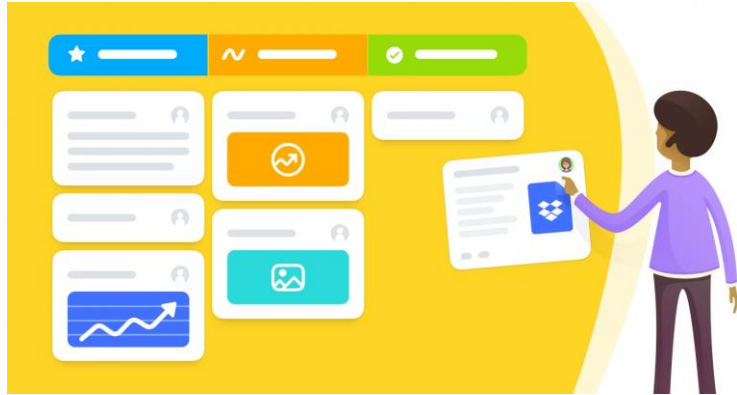
It can reach the right work flow easily.

Compatible

It is compatible with other softwares like Primavera P6.

3. C-ALPHA Scope:

3.1. Task Management



3.2. Time Schedule

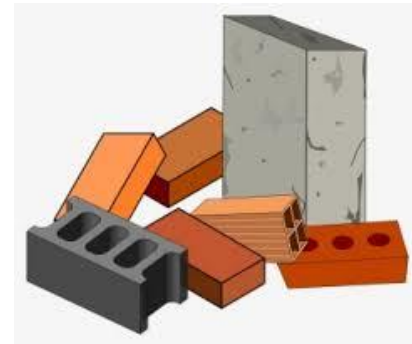


3. C-ALPHA Scope cont..

3.3. Planned Budget Tracking Method



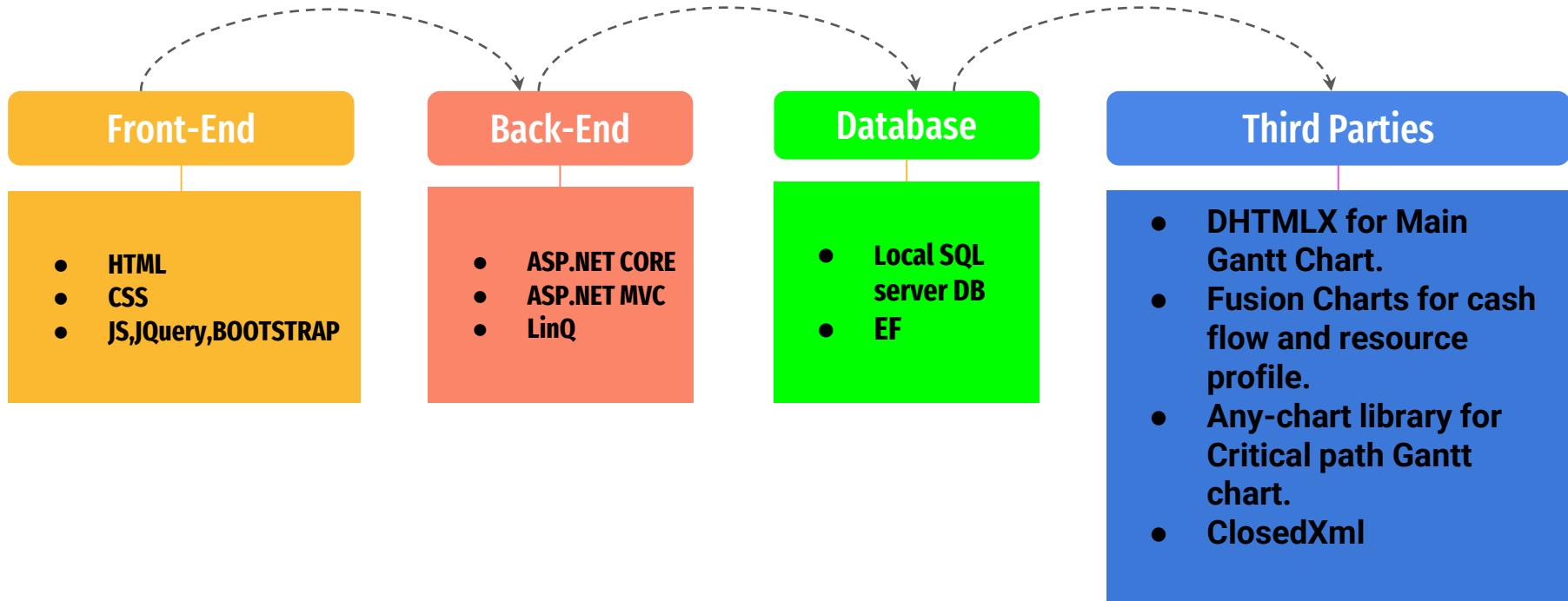
3.4. Resource Analysis & Allocation





4. Project Description:

4.1. Used Technologies



4.2. C-ALPHA Features

Scheduling

- Activities as a gantt chart .
- Relations between activities.
- Lags.
- Critical path.
- Crashing (PERT).

Resources

- Resource allocation.
- Resources profile.

Export

- To Excel (Xls).
- To Primavera(xml).
- To PDF.

Cash Flow

- Cash Flow (Monthly- Daily).

Calendar

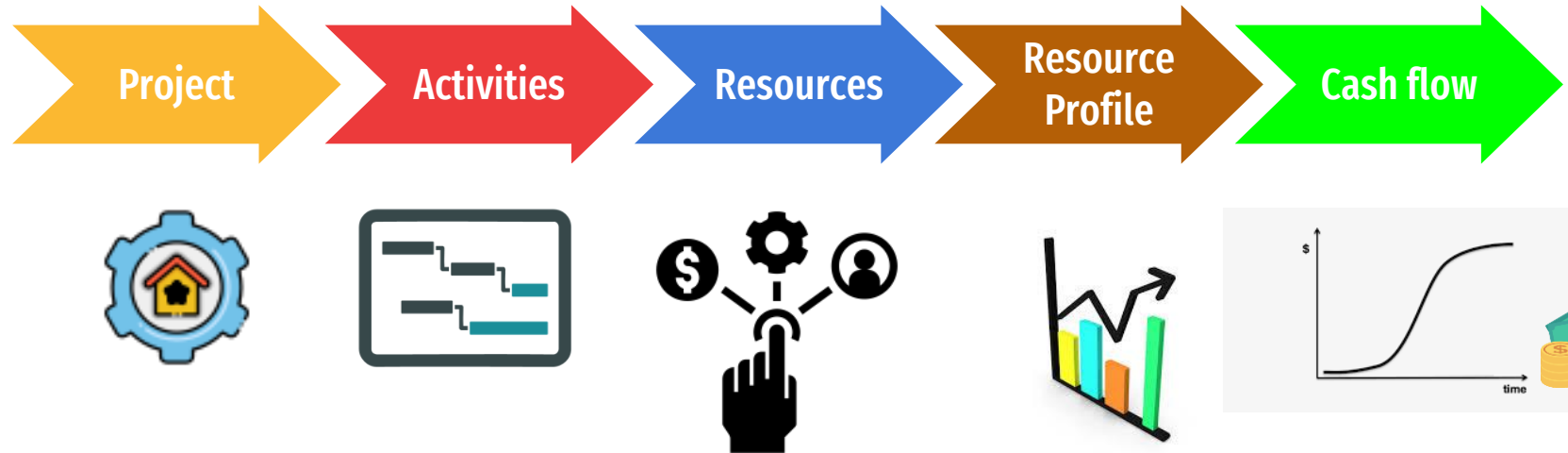
- Assign Events & Meetings.

Upload-Files

- Attachment files as PDF,JPG & Excel.



4.3. C-ALPHA Sequence



4.4. C-ALPHA Inputs

Project Information

CREATE PROJECT

Project Name

Location

Manager Name

Owner Name

Project Start Date

mm/dd/yyyy

Save

Save

Activities

2022-09-28

2022-09-27

2022-09-27

2022-09-26

2022-09-25

2022-07-23

2022-07-06

2022-06-18

2022-06-18

2022-07-06

2022-07-18

Architectural Planning

20 June 2022 - 23 June 2022

Now look

Description

Site clearing

Time period

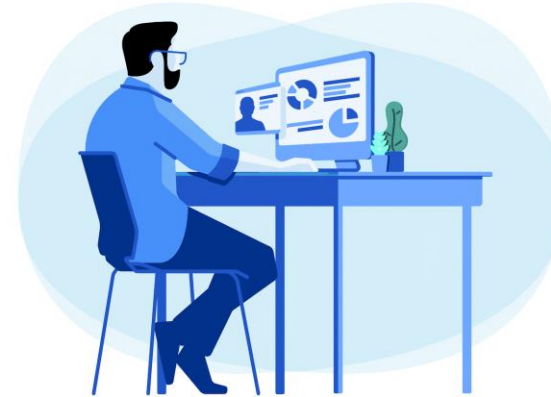
21 June 2022

Days 22 June 2022

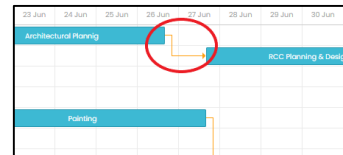
Save

Cancel

Delete



Relation Between Activities



Resources

CREATE RESOURCE

Resource Type

Resource Type

Location

Category

Location

Unit Name

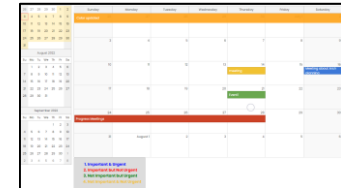
Resource

Save

Project Issues

Issue Title	Issue Description	Issue Date
There is no discussion	There is no discussion till now	26/06/2022
delay of invoices	delay of invoices	27/06/2022
Delay Invoices 2	Delay Invoices 2	03/07/2022
delay	delay of puring the first floor columns	14/07/2022
delay 2	delay of puring the first floor columns2	20/07/2022
delay 3	delay of puring the first floor columns3	12/07/2022

Event



4.5. C-ALPHA Outputs

Reports

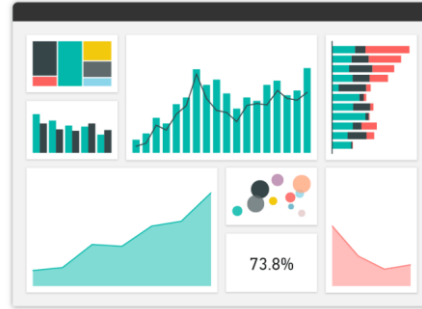
Project Duration



Activities Start & End Dates

Task Name	Start Date	Duration	End Date	Task Type	Task Status	Task Priority	Criticality
Initial Planning	2020/01/01	5	2020/01/05	0	2020/01/05	2020/01/05	High
Initial Planning & Design	2020/01/01	5	2020/01/05	0	2020/01/05	2020/01/05	High
Initial Planning	2020/01/01	4	2020/01/04	0	2020/01/04	2020/01/04	High
Design & Windows	2020/01/01	1	2020/01/01	0	2020/01/01	2020/01/01	Low
Planning	2020/01/01	0	2020/01/01	0	2020/01/01	2020/01/01	Low
Building Input	2020/01/01	2	2020/01/02	0	2020/01/02	2020/01/02	High
Site Office	2020/01/01	2	2020/01/02	0	2020/01/02	2020/01/02	High
Construction	2020/01/01	0	2020/01/01	0	2020/01/01	2020/01/01	Low

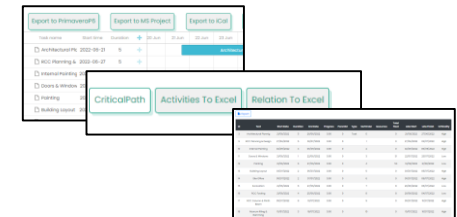
Resources Profile and Consumption rate



Critical Activities



Exported files to other software



5. Live Demo



6. Future Work

01

Resource Levelling



Fit the Time Schedule with a specific limit in a specific Resource .

02

Update Schedule



Collect the Actual Rates of work from executed Activities and update the time schedule.

03

Risk Analysis



Time and Cost Risk Analysis with uncertainty calculations.

04

Mobile Application
Version



Mobile application can receive time schedule and make daily notification of daily work plan and required resources .

6. Future Work Cont..

05

Import files from
Excel



Fit the Time Schedule with a specific limit in a specific Resource .

06

Assign tasks to users



Two case scenarios:

- 1- The role of the project manager to create the while project plan and edit through the tasks and assign roles to the engineers working on the project
- 2- Then each user would only have access to view the parts they are assigned to.



Thank You!