# Self-Service Reporting
# Progress Report w10

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## Week Past: What was completed last week?

The following tasks were completed in the past week:

1) Consuming APIs by front end.
2) Hosting FrontEnd system and hosting API side.
3) Testing All APIs with different inputs.
4) Generate Attributes API which define a tree of columns which enable the end user to select from them which they need to be displayed in the final report.
5) Complete Login and Register API with total user and role management for each Report type form three report types (Purchase order, Supplier, Customers).

## Week Ahead: What will be completed next week?

1) Designing the tree view in the front end for attribute tree API.
2) Start building Generating Report API (which take the selected attribute from the front end as a select clause of the query and generate the minimum dynamic joins between tables to fetch the needed data).

## Learning: What will you do differently? What caused that last week was not according to plan?

We will depend on artificial intelligent algorithms to get the shortest path between tables to generate join clause of our query like ( A*, BFS, DFS ) and then be concatenated  with the select clause given from the front end based on user selection.

## Backlog: What is left from reaching MVP stage?

- Design the filtering mechanism
- Develop backend APIs
- Query building
- Design what's left from frontend interfaces