# Project Design Phase-II
## Solution Requirements (Functional & Non-functional)

| Date | 12 October 2022 |
|------|-----------------|
| Team ID | PNT2022TMID21350 |
| Project Name | Project – PERSONAL EXPENSES TRACKER. |
| Maximum Marks | 4 Marks |

**Define CS, fit into CC**

### 1. CUSTOMER SEGMENT(S) — CS
Who is your customer?
i.e. working parents of 0-5 y.o. kids

1)Customers who are not able keep track of their expenditure,they do daily.
2)Customers who can't remember for what or when they have spent the money.

### 6. CUSTOMER CONSTRAINTS — CC
What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.

1)This application will be supported by most of the devices.
2)The solution we propose will have an alert via email feature ,if expense exceed the given limit.
3)This solution also provide insights on their expenses in a graphical way.

### 5. AVAILABLE SOLUTIONS — AS
Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking

1)Customers have used notes or paper to keep track of their expenses.
2)Personal Expense tracker developed in this project is an alterantive.

**Explore AS, differentiate**

**Focus on J&P, tap into BE, understand RC**

### 2. JOBS-TO-BE-DONE / PROBLEMS — J&P
Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

1)The application allow the customers to keep track of their expenses.
2)They will be able to catergorize their expenses.
3)They will be also given option to set budget and will receive alert on mail when their expense exceeds the budget
4)They can also have an insight of their expenses in a graphical representation either yearly or monthly.

### 9. PROBLEM ROOT CAUSE — RC
What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations.

1)Due to lot of payment options,customer tends to forget where or when they have spent their money.
2)By tracking their expense they can save money.
3)They can save lot of time and money.

### 7. BEHAVIOUR — BE
What does your customer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

1)Make sure he uses the app to track his expense
2)Makse sure they catergorize the expenses correctly.
3)To set limit to their montly expenses,to receive alerts via mail if expenses exceed the limit.

**Focus on J&P, tap into BE, understand RC**

**Identify strong TR & EM**

### 3. TRIGGERS — TR
What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

1)Customers can know how their money is being spent.

### 4. EMOTIONS: BEFORE / AFTER — EM
How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

1)They will be able to track their income and expense made by them.

### 10. YOUR SOLUTION — SL
If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

1)To design an personal expense tracker using flask.
2)To provide insights on their spending in a graphical way based on categories.
3)To send an alert via email if their expense exceed the limit they set.

### 8. CHANNELS of BEHAVIOUR — CH
8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7

1)All their data are secured and being updated to cloud storage.

8.2 OFFLINE
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

1)Make sure their expense is stored offline and updated to cloud once they are online

**Extract online & offline CH of BE**