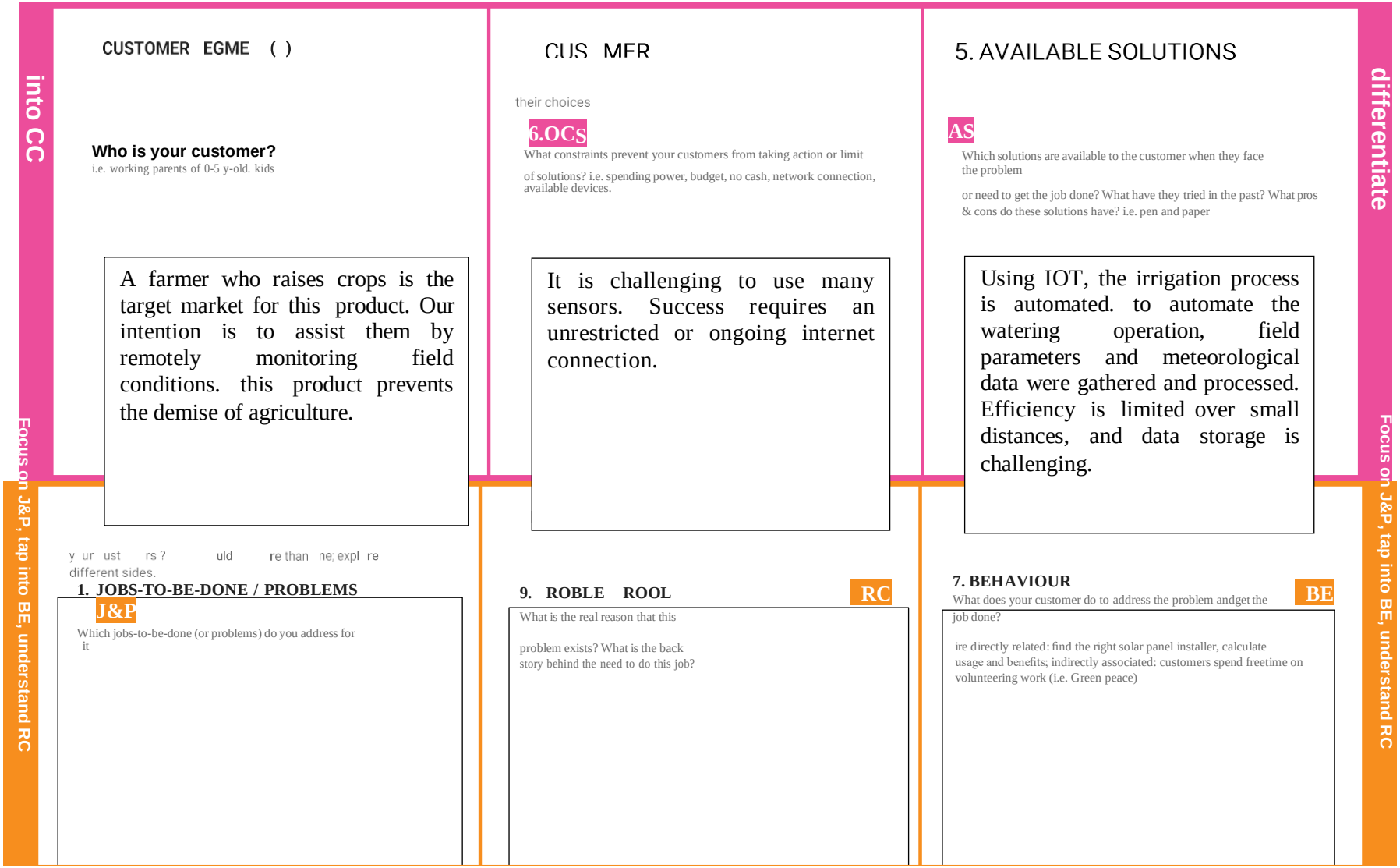
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	14 October 2022
Team ID	PNT2022TMID43471
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	4 Marks



this product's function is to employ sensors to collect different field parameters and then process them using a centralized processing system. IOT uses the cloud to send and store data. Farmers utilize the Weather API to aid in choice.
With the use of mobile applications, farmer makes judge.

It was hard for farmers to perform agriculture because of the often changing and uncertain weather and climate. When deciding whether to water your plants, these factors are crucial. When a farmer isn't there, it's hard to keep an eye on the field, whichcan cause crop damage.

to counteract the consequences of extra water from heavy rain, use a suitable drainage system. the use of pest-resistant hybrid plants.

3. TRIGGERS

TR

What triggers customers to act? i.e., seeing their neighbor installing solar panels, reading about a more efficient solution in the news.

Farmers struggle to provide adequate irrigation. Inadequate water supply reduces yields and affects farmers' profit levels. Farmers have a hardtime predicting the weather.

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.

BEFORE: Lack of knowledge in weather forecasting →Random decisions →low yield.
AFRER: Data from reliable source → correct decision →high yield

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's act.

Our product collects data from various types of sensors and sends the values to our main server. It also collects weather data from the Weather API. the final decision to irrigate the crop is made by the farmer using a mobile application.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE
What kind of actions do customer take online? Extract online channels from 7 #

8.2 ONLINE
What kind Of actions do customers take offline? Extract Offline channels from #7 anduse them for customer development.

ONLINE: Providing online assistance to the farmer, in providing knowledge regarding the pH and moisture level of the soil. Online assistance to be provided to the user in using the product

OFFLINE: Awareness camps to be organized to teach the importance and advantages of the automation and IOT in the development of agriculture.