Project Title: AI BASED LOCALIZATION AND CLASSIFICATION OF SKIN DISEASE WITH ERYTHEMA
Project Design Phase-I Problem Solution Fit
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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

People with skin disease
- People of any age
- 20% Children
- Most commonly occurs in young adults between 20 and 30 years old
- More prevalent in men, affecting five men for every one woman.

6. CUSTOMER CONSTRAINTS CC

- No proper diagnosis of the skin disease
- Problem with the change in error rate value in dataset

5. AVAILABLE SOLUTIONS AS

- The person can upload the images of skin disease using web application. The image will be sent to the trained model. The model analyses the image and detect the skin disease.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS J&P

- Find where exactly the skin disease is located (face, hand, leg, stomach etc.…)
- Classify whether the patient is diagnosed with skin disease with erythema or not
- Detailed information about the detected skin disease will be addressed to the people

9. PROBLEM ROOT CAUSE RC

- People suffering from skin cancer is rapidly increasing.
- If skin diseases are not treated at an earlier stage it may lead to complications.

7. BEHAVIOUR BE

- Circular red bumps on the soles, palms, arms, face and legs that grow into circles that may look like targets.
- People need to capture their skin.
- Machine will detect the location of skin disease and it give results.

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

3. TRIGGERS

- Simple and easy way to diagnose the skin disease by using our web application provides accurate results.

4. EMOTIONS: BEFORE / AFTER   **EM**

BEFORE
- Feelings like embarrassment about their disease
- Sadness/ depression
- Fear/ anxiety

AFTER
- Feeling anxiety and not involving in any social activities, less confidence
- Stress
- Start isolating themselves

10. YOUR SOLUTION   **SL**

- We are building a model which is used for the prevention and early-stage detection of skin disease with erythema.
- Basically, skin disease diagnosis depends on the different characteristics like colour, shape, texture etc...
- Here the person can capture the images of skin and then the image will be sent to the trained model.
- The model analyses the image and detect whether the person has skin disease or not.

8. CHANNELS of BEHAVIOUR   **CH**

8.1 ONLINE

- Scanning and detecting whether the person has skin disease or not by using web application.

8.2 OFFLINE

- Capturing skin images