Ophthalmologist - physician who specializes in the diagnosis and treatment of diseases of the eve

6. CUSTOMER CONSTRAINTS

What constraints prevent your customers from taking action or limit their choices of solutions?

- Correct prediction of disease
- The accuracy of the predicted disease
- End user's health issue

5. AVAILABLE SOLUTIONS

Which solutions are available to the customers when they face the

or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?

Ophthalmologist manually diagnosing DR from fundus images.

It demands high level of expertise and effort

2. JOBS-TO-BE-DONE / PROBLEMS

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

- Diabetic Retinopathy(DR) is a common complication of diabetes mellitus, which causes lesions on the retina that affect vision
- The manual diagnosis uses much time and cost to predict unlike the computer aided system

9. PROBLEM ROOT CAUSE

What is the real reason that this problem exists? What is the back story behind the need to do this job?



- The accuracy of the predicted disease
- End user's health issue whether the patient doesn't gets affected

7. BEHAVIOUR

What does your customer do to address the problem and get the job



They need to find a experts ophthalmologists who can diagnosis Diabetic Retinopathy in short time and minimum cost. They should take treatment in the initial stage.

3. TRIGGERS

What triggers customers to act?

- Blurred and fluctuating vision
- Floating eye

4. EMOTIONS: BEFORE / AFTER

TR

10. YOUR SOLUTION

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 behavior.

A deep learning model using CNN that could detect the DR accurately, which minimizes the cost and also a load of detecting it is shifted from the ophthalmologists which in turn increase the patient doctor ratio

8. CHANNELS of BEHAVIOUR

What kind of actions do customers take online? Extract online channels from #7

An online diabetic retinopathy Screening tool for patients with type 2 diabetics

8.2 OFFLINE

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

Optical coherence tomography, fundus fluorescein angiography, slit lamp biomicroscopy, and fundus imaging

How do customers feel when they face a problem or a job and afterwards? **Before:** Fear, anxiety, vulnerability, guilt, stress **After:** Happy, confident and peacefull

EΜ



Problem-Solution it canvas is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license Created by Daria Nepriakhina / Amaltama.com

