

### Customer needs

Number	Need	Importance (1-5 Scale)
1	The application will be able to read out	5
	loud the text on an image with a	
	reasonable response time.	
2	The application will be easy to use and of	5
	minimal cost.	
3	The application will allow the user to	5
	select common file types from their	
	device.	
4	The reading speed of the application will	4
	be convenient for the reader.	
5	The application will allow the user to	3
	access their camera to take pictures.	
6	The application will propose different	2
	voices to choose from.	
7	The application will consider more	1
	languages to accommodate more users.	

#### <u>Legend</u>

- 5: Extremely important
- 4: Very Important
- 3: Important
- 2: Somewhat important
- 1: Not important at all

# Benchmarking

Me	Ne	Unit	Metric	Importan	Live Text	Talkie	Image to
tric	ed			ce		OCR	Speech
#	#						
1	1,	S	Response time	4	Not	Not	Not
	4				specified	specified	specified
2	2	\$	Monthly Subscription	2	0	4.49	0
			Cost				
3	3,	NA	Types of image files	5	All image	All image	All image
	5		supported		file types	file types,	file types
						PDF	
4	4	NA	Speech Speed	4	Not	Not	Not
					specified	specified	specified
5	6	#	Number of voices	2	6	1	1
6	7	#	Number of languages	3	7	45	27
7	2	NA	App OS Compatibility	5	Apple	Apple and	Apple
						Android	

- 4TEXT2SPEECH WAS
  BENCHMARKED WITH 3
  SIMILAR PRODUCTS
- DIFFERENCE IN
  FEATURES BETWEEN
  COMPETITION

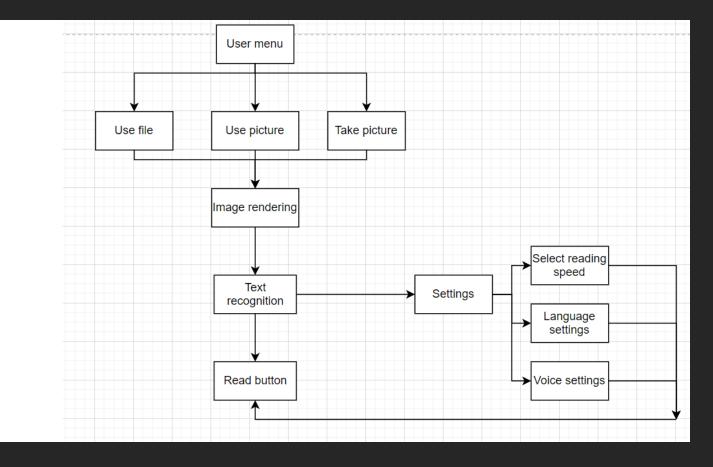
# Target Specifications

METRI	Metric	UNIT	MARGINAL	IDEAL VALUES
C #			VALUES	
1	Response time	S	5	3
2	Monthly Subscription Cost	\$	5	0
3	Types of image files supported	N/A	JPEG,PNG,	All image file
			PDF	types, PDF
4	Speech Speed	%	< 300 WPM	< 250 WPM
5	Number of voices	N/A	3	5
6	Number of languages	N/A	5	20
7	App OS Compatibility	N/A	IOS and Android	IOS and Android
			Android	

# Feasibility Study

- MINIMUM CONCEPT
  - 1 LANGUAGE OPTION
  - IOS COMPATIBILITY
  - VOICE SELECTION (MALE OR FEMALE)
- · CONCEPT PLANNING
  - ANDROID STUDIO
  - CLOUD VISION API (IMAGE TRANSCRIPTION)

### Final Global Concept Chosen



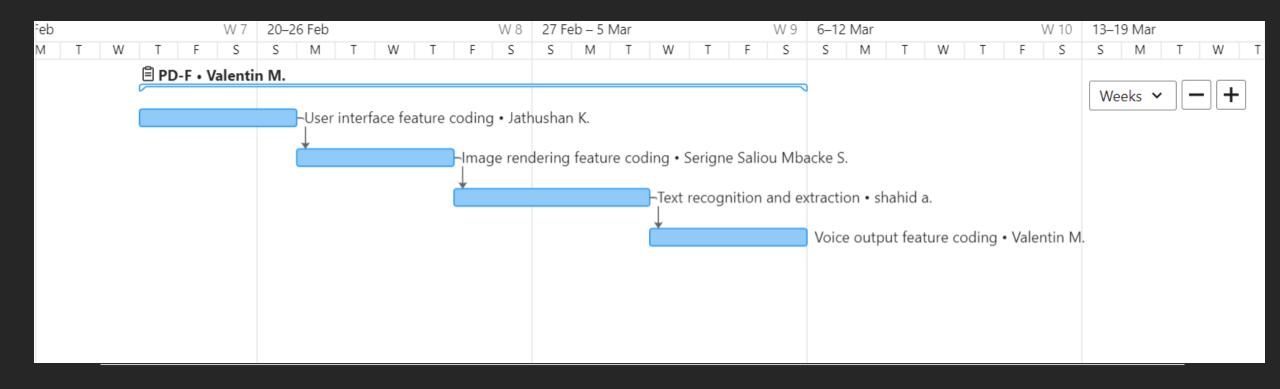
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	languages to accommodate more users.	

- Meets almost all the needs
- Coding process will be easy to develop with efficiency
- Response time will be a challenge
- Will cost user \$0 subscription fee

## Project Plan



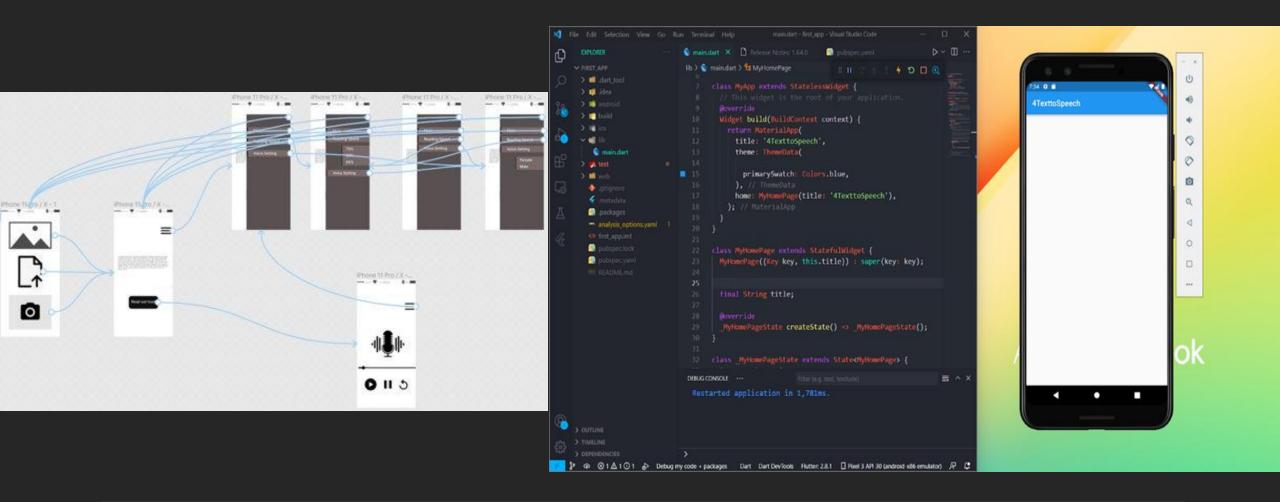
### Gantt Chart



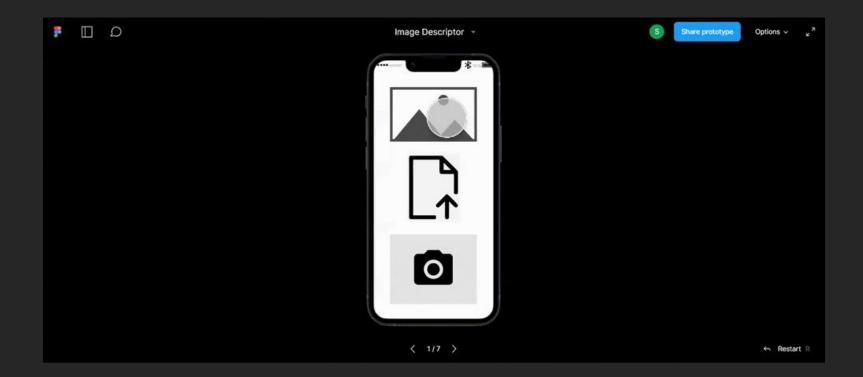
#### CLIENT FEEDBACK

- TEXT RECOGNITION FOR TEXT WITH DIFFERENT LANGUAGES
- SETTINGS MENU BRANCHING OFF ANY FEATURE
- APP ABLE TO CHANGE TO DARK MODE
- VOICE WITH COMPREHENSIBLE PITCH
- REPLAY FUNCTIONALITY

## Plan for prototype development



# Prototype 1



#### SIMULATION LINK:

HTTPS://WWW.FIGMA.COM/PROTO/W92SJVH3OMUELJ88PPV2QD/IMAGE-DESCRIPTOR?NODE-ID=3%3A5&SCALING=SCALE-DOWN&PAGE-ID=0%3A1&STARTING-POINT-NODE-ID=1%3A2

### Bill of Materials

Item #	Part	Description	Quantity	Unit	Extended
	Name			Cost(\$)	Cost
1	Flutter	An open-source UI software	1	0	0
		development kit that allows			
		developers to develop applications			
		for Android, iOS and many more			
		platforms.			
2	Android	IDE for Google's Android operating	1	0	0
	Studio	system.			
3	Git Bash	It's a terminal application used to	1	0	0
		communicate with an OS using			
		commands.			
4	Translator	Google's translation library used to	1	0	0
	Dart	input in an application to translate			
	Package	words into selected languages.			
Total:				0	









# Client meeting 3 plan

Questions to be asked to the client about the most recent prototype:

- 1 Do you feel like this application was designed for you?
- 2 Is there anything that you expected that is missing in our prototype?
- 3 Is there anything that is unnecessary/distracting/confusing that you would like us to remove from our prototype?
- 4 Based on our prototype, do you think you will be able to use our application with great ease?
- 5 On a scale from 1 to 10, does this application meet your expectations?
- 6 On a scale from 1 to 10, would you use this application more than those already on the market?
- 7 On a scale from 1 to 10, how likely would you recommend this app to someone?

### QUESTIONS TO BE ASKED TO THE CLIENT ABOUT WHAT METRICS CAN BE TESTED:

Metrics	Questions
Response time	We have decided to set the response time at 3 seconds. Do you consent to this response time?
Monthly Subscription Cost	N/A
Number of image files supported	We have the files types (JPG, PNG, DOC, PDF & TXT) that you desired in our prototype. Are there any other file types that you would like us to implement in the application?
Speech Speed	We have speeds of 75%, 80%, and 85% in our prototype. Are there any other speeds that you would like us to implement in the application?
Number of voices	We have a male and female voice in our prototype. Are there any other types of voice that you would like us to implement in the application?
Number of languages	N/A
App OS Compatibility	N/A
Contrast Polarity	N/A
Application Colors	We will use appropriate colors to make our application look professional. However, do you have any color preference for this application whether it is for the background or the text?

Any questions for us?

