

# Proposal and Feasibility Presentation

## Urdu Caption For Blind Peoples

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# Agenda of the Presentation

- Motivation
- Brief Introduction
- Scope
- Functionalities
- Tools and Technologies
- Feasibility
  1. Technical
  2. Resource
  3. Financial
  4. Operational
- Conclusion

# Motivation

- In 2017 estimated more than 2.21 million [1] people in Pakistan are blind or has Sever Visual Impairment
- They rely on people to help them navigate in the their surroundings
- The traditional tools and techniques are not very useful since it takes a person to be available form them.
- However, with the help of Urdu Voice Captioning Application they can do their daily tasks.

# Brief Introduction

- In Pakistan, people with visual impairment face many hurdles in performing day to day to task. They must have to estimate the state of the object. The project aims to manually develop Cross Platform application that can help blind people perform daily task.

# Brief Introduction (cont.)

Our system is implemented in python and Cross-platform app. Detection system is implemented in python using libraries such as Keras and TensorFlow. The Detection and classifier we are using to detect the state of the object from the picture is VGG-16. Cross-platform will provide interface to user to interact with the System .

# Connectivity

Our Cross platform application will use tflite library to established the connectivity between the model and app.

# Scope

- Cross-platform Based Application
- This detection system scope is limited . Any source like cameras takes random pictures of objects and send to the model for checking result after processing the model it gives result.

# Functionalities

- Signup
- Login
- Capture Image
- Generate Urdu Captions
- Caption to speech



# Proposed Tools/Platform

Tools	Version	Rationale
Android Studio/ Vs code	4.1/1.50.1	IDE
Firebase	Latest	Database
MS Power Point	Microsoft 360 pro plus	Presentation
Adobe XD	32.0	Designing Mockups
MS Word	Microsoft 360 pro plus	Documentation
MS Excel	Microsoft 360 pro plus	Project Management, Gantt chart
Python	3.7	Programming Language
MS Visio	Microsoft 360 pro plus	Diagramming Tool

# Feasibility

- Technical feasibility

All the mentioned Tools and Technologies are freely available.

# Feasibility

- Financial feasibility

Most of the tools and technologies we are using are freely available to us.

There is an app publishing fee of \$25 dollars on Google play store and \$99 for Apple store in case we publish it.

# Feasibility

- Resource feasibility

we always have the following resources available to us.

- PCs/Laptops

- Smart Phones

- Working Internet Connection

# Feasibility

- Operational feasibility

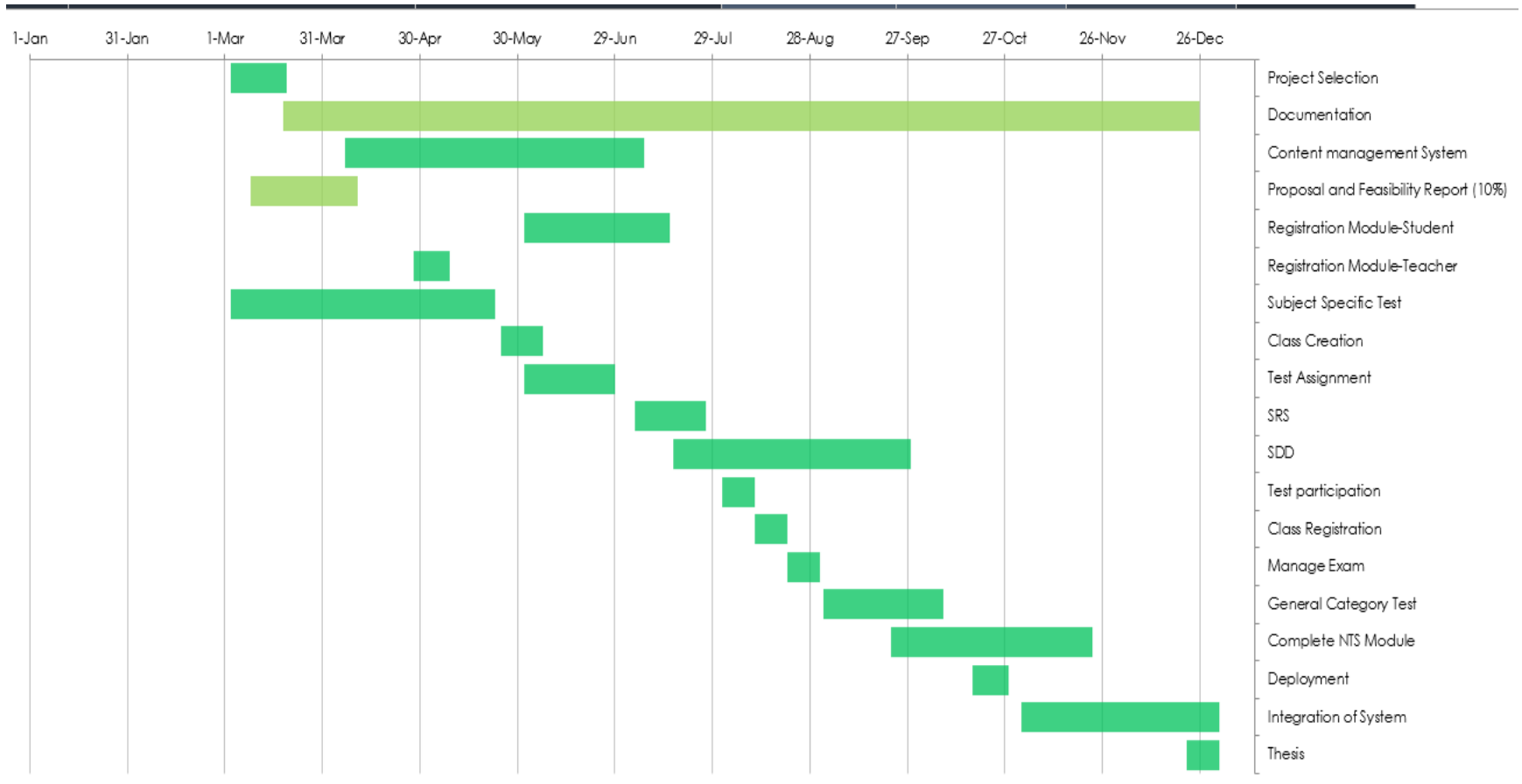
Our app will require the users to have an android smart Phone connected to the internet Which is normal now a days.

They need to be literate enough to use the Application.

# Schedule

AT RISK	TASK NAME	STATUS	START DATE	END DATE	DURATION in days	STATUS
<input type="checkbox"/>	Project Selection	Complete	3-Mar	19-Mar	17	Not Started
<input type="checkbox"/>	Documentation	In Progress	19-Mar	25-Dec	282	In Progress
<input type="checkbox"/>	Content management System	In Progress	7-Apr	7-Jul	92	Complete
<input type="checkbox"/>	Proposal and Feasibility Report (10%)	Complete	9-Mar	10-Apr	33	On Hold
<input type="checkbox"/>	Registration Module-Student	In Progress	1-Jun	15-Jul	45	Overdue
<input type="checkbox"/>	Registration Module-Teacher	On Hold	28-Apr	8-May	11	Needs Review
<input type="checkbox"/>	Subject Specific Test	In Progress	3-Mar	22-May	81	Canceled
<input type="checkbox"/>	Class Creation	On Hold	25-May	6-Jun	13	
<input type="checkbox"/>	Test Assignment	Not Started	1-Jun	28-Jun	28	
<input type="checkbox"/>	SRS	Not Started	5-Jul	26-Jul	22	
<input type="checkbox"/>	SDD	Not Started	17-Jul	27-Sep	73	
<input type="checkbox"/>	Test participation	Not Started	1-Aug	10-Aug	10	
<input type="checkbox"/>	Class Registration	Not Started	11-Aug	20-Aug	10	
<input type="checkbox"/>	Manage Exam	Not Started	21-Aug	30-Aug	10	
<input type="checkbox"/>	General Category Test	Not Started	1-Sep	7-Oct	37	
<input type="checkbox"/>	Complete NTS Module	Not Started	22-Sep	22-Nov	62	
<input type="checkbox"/>	Deployment	Not Started	17-Oct	27-Oct	11	
<input type="checkbox"/>	Integration of System	Not Started	1-Nov	31-Dec	61	
<input type="checkbox"/>	Thesis	Not Started	22-Dec	31-Dec	10	

# Schedule (Cont..)



# Tasks for 1st Iteration (or 30%)

- Documentation
- Mockups
- App Interface



# Conclusion

- Develop Cross platform Application to help visually impaired in recognizing in state of object. Testing methodology to a Android and IOS based service.