PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____
(Filled by the Department)

Academic Year   : 2021- 22

Year of Admission   : 2020

1. Title of the Project   : Mobile app for Image Story Teller (Text to Image)

2. Name of the Guide   :   Dr. Geevar C Zacharias

3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
IJAS AHAMMED M	MES20MCA-2021	

Date: 16/04/2022

Approval Status :   Approved / Not Approved

Signature of
Committee Members

Comments of the Guide   Dated Signature

Initial Submission   :

First Review   :
                                                              _____

Second Review   :

Comments of the Project Coordinator   Dated Signature

Initial Submission:
                                                              _____

First Review
                                                              _____

Second Review

Final Comments :

                                                    Dated Signature of HOD

MOBILE APP FOR IMAGE STORYTELLER

(TEXT TO IMAGE)

Ijas Ahammed M

Introduction and Objectives:

The aim of the project is to develop a software which will convert a text into its corresponding image. This software can represent a simple or even a big text with images corresponding to each sentence in the text. Each sentence of the given text is analyzed for its meaning and matching images are extracted. The sentences are replaced by images which can convey the meaning of the text data, so that, the user obtains an image story line as an output for the text story line given as input. For finding which all words in each sentence make it meaningful, we make use of the NLTK module available in Python. At first, each word in the given story is tokenized using the tokenizer available in Python. The image story is designed in such a way that the images are represented in a gallery format. There is button which can be clicked to get the double corresponding to each sentence in the text. The sentence for each image, is also displayed below it, so that it can be understood in a better way.

Currently to understand the inner meaning of an image people must either search or go to some experts for help. It is time consuming and sometimes images are not interpreted correctly. The project develops a software which will convert a text story into its corresponding image story. Each sentence of the given story is analyzed for its meaning and matching images are extracted from our dataset. The sentences are replaced by images which can convey the meaning of the text data, so that, the user obtains IMAGE STORYTELLER as an output for the text story line given as input. Thus, users can understand the meaning of the image in a better way.

Problem Definition:

The image storyteller system each sentence of the given story is analyzed for its meaning and matching images are extracted from the web using Google Search Engine. The sentences are replaced by images which can convey the meaning of the text data, so that, the user obtains an image story line as an output for the text story line given as input. The existing case of the system is not available.

PROPOSED SYSTEM

This software can represent a simple or even a big story with images corresponding to each sentence in the story. Each sentence of the given story is analyzed for its meaning and matching images are extracted from Google Search Engine. The sentences are replaced by images which can convey the meaning of the text data, so that, the user obtains an image

story line as an output for the text story line given as input. For finding which all words in each sentence make it meaningful, we make use of the NLTK module available in Python. Image story line in our project helps the users to understand the story in better way, even children's can understand.

Basic functionalities:

Text to Image Conversion

- Story to sentences
- sentence comparison
  - tokenization
  - remove stop words from the string
  - stemming
  - create a vector containing keywords of both strings cosine similarity
  - cosine similarity

- Extract image from dataset with maximum similarity

USER MODULE:

- Admin
- User
- Author

ADMIN

- Login
- View Authors
- Article View
- Manage Article
- View feedback

USERS

- Registration
- Login
- Article search
- View articles

- Storyteller (add text)
- Feedback

AUTHOR

- Registration
- Login
- Article post
- View Feedback

Tools / Platform, Hardware and Software Requirements:

HARDWARE REQUIREMENTS

The selection of hardware is very important in the existence and proper working of any software. Then selection hardware, the size and capacity requirements are also important.

☐ Processor	-	Intel x86
☐ Speed	-	1.1 GHz
☐ RAM	-	700 MB (min)
☐ Hard Disk	-	150 MB
☐ Keyboard	-	Standard Windows Keyboard
☐ Mouse	-	Two or Three Button Mouse
☐ Monitor	-	SVG

SOFTWARE REQUIREMENTS

One of the most difficult tasks is selecting software for the system, once the system requirements is found out then we have to determine whether a particular software package fits for those system requirements.The application requirement:

- Operating System - Windows 7 or Above, Android

  Technology - Python, Java

- Backend - MySQL

  - Platform used - JetBrains, PyCharm,

  Android Studio - Web Browser - Google Chrome,

  Fire fox, Microsoft Edge

- Front End - HTML, CSS, JAVASCRIPT

  - Frame work - Flask