DIP Project: Documentation

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Storyteller Application

About Storyteller:

Storyteller is an application that enables you to listen to books or stories anywhere in the world with extreme ease. Just take some pictures using your phone, send it to our server enjoy listening to your book or story as audio book.

Implementation:

We have 2 main components in our application:

1- The android application:
   Here, you can choose pictures from your gallery of your book or story and upload it to our server where the processing takes place. Our application compresses the images and uploads it to our server and gets back the response for the story that it should speak for you. We also allow you to edit this story and add many pictures together to transform the whole story to speech before listening to it. Our application also allows you to save your story on your phone using a name you give it to the story and allows you to play it later when you are offline. We also allow the user to control the pitch and the speed of the story using pitch and speed buttons in the application.

2- The web server
   Here, we have 2 components: the website and the server which hosts the website and does the processing on the received image from the android application.

   a) The processing part:
      We used OpenCV, python and pytesseract in our implementation.
      - First, we take an image as input then we convert it to HSV colour space.
      - Second, we apply thresholding on the image and detect the paper in the image.

- Third, we filter the image from noise to extract the text correctly as output.

b) Our website:

Here we allow the user to know more about our application, how to get started with using our application, provide a method for the user to contact us and also, use it at a marketing method for the application.

The website link: http://mahmoudselim.pythonanywhere.com/

Here are some screenshots for our application.
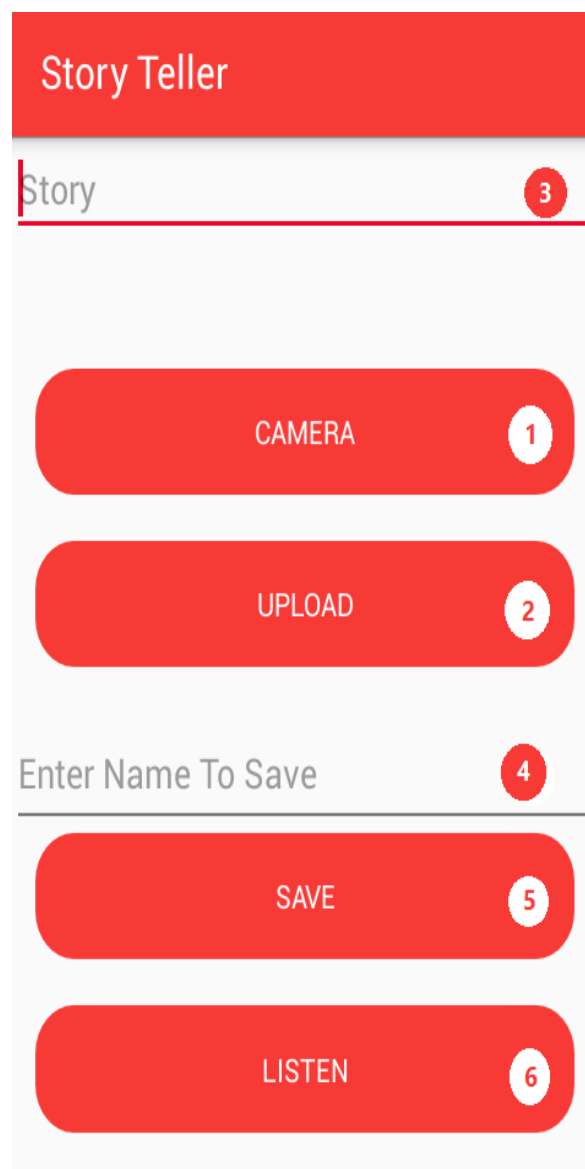
Here are some screenshots for our website:
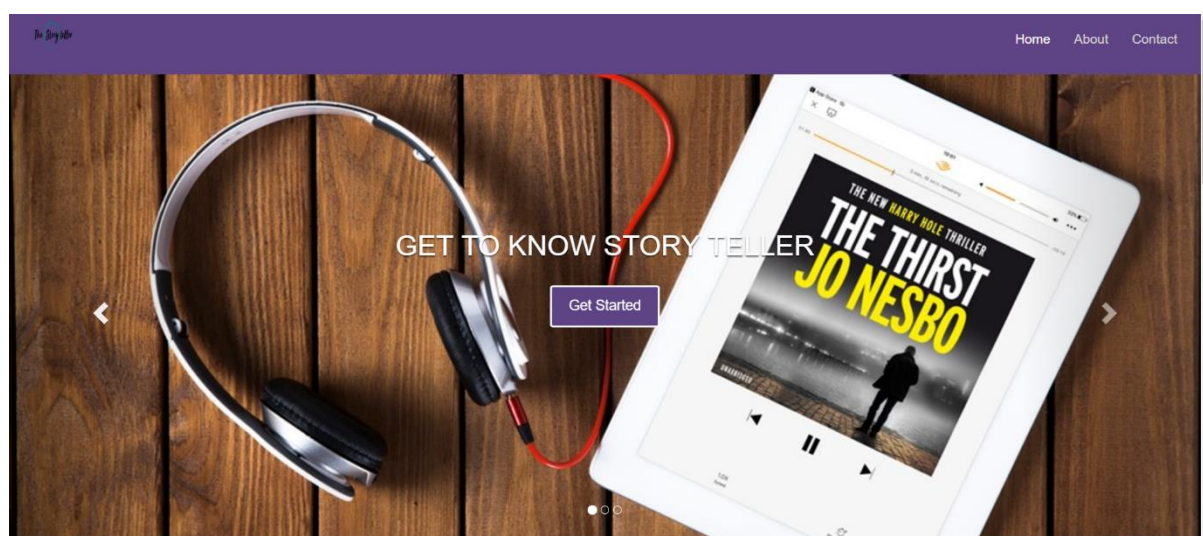
Android Studio   Python OpenCv   Flask

What's Cool About Story Teller

Story Teller is an application that enables you to listen to books or stories every where in the world with extreme ease. Just take some pics using your phone, send it to our server, pour a cup of coffe, and enjoy listening to you story.

Our Application is designed to help you and everyone in the world to listen to books any where and while doing any thing such as: walking, driving, exercising or even enjoying a hot tea. We aim to help everyone whether he was an adult who is looking forward to enrich their knowledge, blind people who can't read or even a child who needs help before their sleep. Just install our application. and you're good to go

Say Hello!

Your Name

Enter your name

Email

Enter your email addess

Message

Your message here...

Submit