

Chapter 4

System Design

System design is the method of characterizing the engineering, components, modules and interfacing, and information for a framework to fulfill specified requirements. Frameworks plan may be seen as the application of frameworks hypothesis to item advancement. Actual Plan of the issue is depicted in this chapter as beneath-

4.1 DFD – Data Flow Diagram

It could be a graphical representation of the “flow” of information through a data framework, displaying it’s preparing aspects.

A Data Flow Diagram (DFD) is frequently utilized as preparatory step to make a diagram of the framework without going into awesome subtle elements, which can afterward be elaborated.

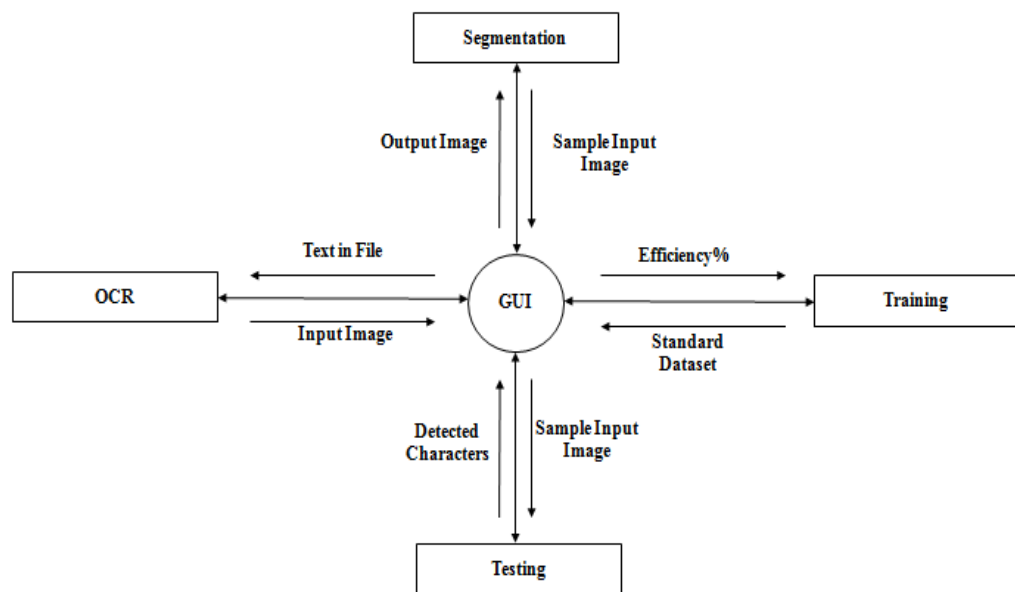


Figure 4.1: Data Flow Diagram

The above diagram illustrates the flow of data of this project. The input and output of every module is shown by the arrow head, depicting the flow of data.

4.2 Unified Modeling Language (UML) – Diagram

UML could be a standardized displaying dialect empowering designer to indicate, visualize, construct and report relics of software. In this way, UML make these antiquities sealable, secure and strong in execution.

4.2.1 Activity Diagram

Movement chart are graphical representations of workflows of step astute exercises and activities with back for choice, cycle and concurrency. In bound together Modeling Dialect, movement charts are expecting to demonstrate both computational and organizational processes. Activity graph is UML conduct chart which appears stream of control with accentuation on arrangement and condition of the stream.

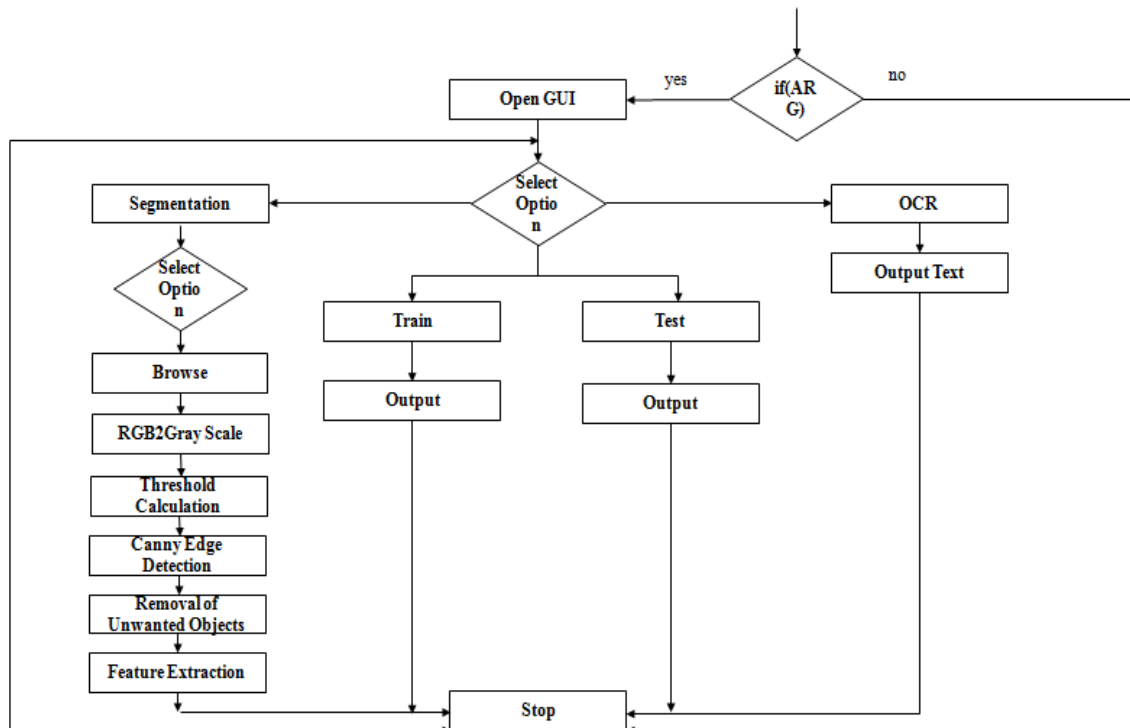


Figure 4.2: Activity Diagram

The above figure shows the activity diagram for the project. Firstly, GUI (Graphical User Interface) is being created for the different segmentation parts. First GUI contains four options i.e. Segmentation, Training, Testing and OCR (Optical Character Recognition). Second GUI i.e. segmentation part consists of six options as shown above after done with the segmentation we go to the training and testing options and at last we can choose OCR for conversion of Kannada text to English.