1. Introduction

Our software is designed for the purpose of solving puzzle consisting of irregular shape onto a designated frame. The software aims to find the most efficient way to solve the puzzle within a certain duration.

For this software, to match each piece, we used corner detection method where every piece is being approximated with a polygon.

2. Software Details

2.1 Technical Specification

For this software, we used Python language, a lightweight yet efficient programming language. Furthermore, Phyton language supports multithreading features. The version used is Python 3.5.2. The NetBeans IDE 8.1 is also used for editing purposes.

2.2 Requirement

For functional requirements, whenever the software receives a set of input i.e. the puzzle pieces, it shall arrange the pieces so that the pieces fits into the frame.

The non-functional requirements would prevent any invalid input based on the pre-defined conditions and ensures no error occur during runtime.

2.3 Performance goals

We aim to minimize the processing time by applying multithreading in our implementation where a single task is divided into smaller tasks. The software will be able to complete the puzzle at the minimum time possible.