

University of Texas at Dallas
CS 6374 – Computational Logic
Prof. Gopal Gupta
Project Proposal

Deeksha Lakshmeesh Mestha
dxm172630@utdallas.edu

Rahul Nalawade
rsn170330@utdallas.edu

Title: A system for simulating orthodontists expertise

Aim: To implement an expert system for generating sequence of actions to re-arrange the structure of the crooked teeth.

Procedure:

1. Meet an expert to get insights of the requirement and learn about criteria, if any, for priority selection of crooked teeth.
2. To formulate the data from the sample images and add rules as required. For e.g., as suggested by the professor, there are 8 possible movements for a teeth to move – left, right, backward, forward, up, down, anti-clockwise and clockwise rotation.
3. Design the system based on the constraints and add more if necessary.
4. Test for the different samples and verify the the correctness, and efficiency. Update or redesign the system with more rules/ constraints if required.
5. Present the expert system and mention future upgrades which can be done.