Autonomous Multiagent Systems – AI314 Spring 2023

Project Description Phase1

Kindly do your preparations to show & discuss the following points in your presentation with regard to SDLC stages:

➢ *Stage#1 (Planning & Analysis):*
   o *Apply the following planning and analysis technique to your problem:*
   - Problem definition and planning.
   - Environment type.
   - Agent type.
   - PEAS (Performance measure, Environment, Actuators, Sensors).

➢ *Stage#2 (Design):*
   o *Apply the following design techniques to formulate the problem and its solution:*
   - Problem state space (State graph and/or State tree).
   - Initial state.
   - Goal test to verify reaching goal state.
   - Successor function with (Set of actions & Paths costs).
   - Transition model
   - A solution / plan to show the transformation from initial state to goal state.
   - UML diagrams if there is a need for it.

Some Notes:

All team member should contribute in discussion and presentation.