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| Prasann Doshi |  |
| Name Prasann Doshi  Student No 101257784 | Report  Sections Implementing Interaction Protocol and Negotiation Protocol – edited and finalized the draft version. Scenarios creation: Discussion on performance.  Page Nos.  Research  Details -Read and understand JADE documentation -Read Genius framework documentation for identifying negotiation strategies.  Algorithms  Details -Implemented a basic negotiation strategy – reduce by 5 %, for HA (counter-proposal) and RA(proposal).  Software Design/Coding  Details Adapted and implemented interaction protocol between HA, RA and AA from basic model. -Implemented multi-round negotiation using Contract net protocol as a negotiation protocol. -Implemented the interaction protocol using Achieve Rational effect. -Implemented single round negotiation using ContractNetInitiator -Implemented multi round negotiation using a custom iterated version of ContractNetInitiator for home agent and a custom implementation of SSContractNetResponder for Retailer Agent. -Developed and implemented logger and settings tab for GUI. -Integrated forecast service with appliance agent. -Integrated GUI with Home Agent.  Project Management  Details  Testing  Details - Testing for graphs, the values plotted are same as provided by forecast service. - Testing multi-round negotiation, communication between agents using logger, and single round negotiation. -Creating and testing different scenarios. |