

Team Organization V1.0

Internal Roles

Role	Responsibilities	Assignment Approach
Project Coordinator	Meeting facilitation, risk management, progress reporting, team coordination	Shared/Rotating weekly among all members
Requirements Analyst	Requirement gathering, feature specification, user story and acceptance criteria definition	Collaborative effort by all team members
Full-Stack Developer	Frontend UI implementation, backend API development, database design, integration testing	All team members contribute based on current project needs
3D/2D Visualization Specialist	Implementation of warehouse visualization components, algorithm output rendering, and interactive display features	Team members with relevant expertise

External Stakeholders

Role	Responsibilities	Entity
Algorithm Specialist	Development of optimization algorithms, performance tuning, and integration support	External Developer
Supervisor	Technical guidance, project evaluation, and client communication facilitation	Course Instructor
Client	Business requirements definition, feedback on deliverables, final acceptance	Client Representative

Team Organization V2.0

Internal Roles

Role	Responsibilities	Assigned Student
Project Coordinator	Meeting facilitation, risk management, progress reporting, team coordination	Shared/Rotating weekly among all members
Requirements Analyst	Requirement gathering, feature specification, user story and acceptance criteria definition	Collaborative effort by all team members
Front End Developer	UI implementation, backend integration, user experience design	Ruxin Ma (Lead) Shiyu Zhao Jiahui Huang
Back End Developer	API development, database design, integration with frontend/algorithms/visualization	Feinan Guo (Lead) Xuran Chen Jiabao Ye
3D/2D Visualization Specialist	Warehouse visualization components, algorithm output rendering, interactive display features	Jiahui Huang

External Stakeholders

Role	Responsibilities	Person
Algorithm Specialist	Optimization algorithm development, backend integration support	Jiabao Ye
Supervisor	Technical guidance, project evaluation, and client communication facilitation	Lia Song (Course Instructor)
Client	Business requirements definition, feedback on deliverables, final acceptance	Dr. Liu (Client Representative)

