

Task	Duration (Days)	Dependencies
Identify store inventory features	3	None
Survey AR hardware options	2	None
Define success criteria	2	None
Assess warehouse layout	3	None
Collect user requirements	3	None
Design system architecture	4	Identify store inventory features
Select ML models	3	Collect user requirements
Choose OpenCV techniques	3	Collect user requirements
Create data flow diagrams	3	Design system architecture
Define API specifications	3	Design system architecture
Collect dataset images	5	None
Annotate dataset	4	Collect dataset images
Train object detection models	7	Annotate dataset
Develop AR overlay prototype	7	Train object detection models
Test prototype functionality	3	Develop AR overlay prototype
Design database schema	4	Design system architecture
Implement database	4	Design database schema
Develop REST API	6	Implement database
Integrate with inventory system	4	Develop REST API
Implement security	3	Develop REST API
Develop AR interface	10	Develop AR overlay prototype
Implement recognition and overlay	7	Develop AR interface
Integrate backend API	5	Develop REST API
Optimize app performance	5	Implement recognition and overlay
Integration testing	5	Integrate backend API, Implement recognition and overlay
Usability testing	4	Integration testing
Gather user feedback	4	Usability testing
Refine model accuracy	6	Gather user feedback
Improve AR interface	5	Gather user feedback
Deploy hardware and software	5	Improve AR interface
Conduct staff training	4	Deploy hardware and software
Prepare support documentation	4	Conduct staff training
Set support and maintenance plan	3	Prepare support documentation
Monitor system performance	5	Deploy hardware and software