

Technology Requirements for HomeEase – In-Home Services Provider

A) Technological Requirements

Technology	Description	Pros	Cons	Reason for Selection
Framework: Angular	Frontend framework for building a dynamic user interface.	<ul style="list-style-type: none">- High performance for single-page applications.- Large community support.	<ul style="list-style-type: none">- Steep learning curve for beginners.	Best fit for creating an interactive, accessible UI.
Backend: GoLang	Programming language for server-side development.	<ul style="list-style-type: none">- Highly efficient and scalable.- Simple syntax, great for microservices.	<ul style="list-style-type: none">- Smaller developer community compared to some alternatives.	Ideal for building robust microservices with fast performance.
Database: MySQL (GORM Library)	Relational database management system.	<ul style="list-style-type: none">- Widely used and well-documented.- GORM simplifies database operations in Go.	<ul style="list-style-type: none">- Limited flexibility for handling NoSQL-style queries.	Suitable for structured data and easy integration with Go.
Version Control: Git	Tool for source code management.	<ul style="list-style-type: none">- Reliable version tracking.- Enables collaborative development.	<ul style="list-style-type: none">- Requires time to learn advanced features.	Essential for team collaboration and code integrity.
Code Editor: Visual Studio Code	Integrated development environment (IDE).	<ul style="list-style-type: none">- Lightweight and highly customizable.- Wide plugin support.	<ul style="list-style-type: none">- Resource-heavy when using multiple extensions.	Simplifies development with built-in tools and integrations.

Technology	Description	Pros	Cons	Reason for Selection
Hardware	Laptops/desktops with moderate specifications.	- Cost-efficient and sufficient for the tasks.	- Limited to the processing power of personal machines.	Accessible and practical for all team members.

B) Learning Plan

Team Member	Responsibility	Existing Skill Level (%)	Skills to Learn	Learning Plan
Bhavya Vaghela	Project Management	70%	Advanced Git workflows, Agile methodology.	Start: Nov 21, 2024 End: Feb15, 2025 Resources: Udemy Agile Course, Git official documentation.
Abdulgafar Towolawi	Backend Development	60%	Advanced GoLang, MySQL (with GORM).	Start: Nov 21, 2024 End: Feb15, 2025 Resources: GoLang.org, GORM tutorials, MySQL database books.
Ahad Abdul	UI/UX Design	50%	Angular framework, Accessibility Design.	Start: Nov 21, 2024 End: Feb15, 2025 Resources: Angular.io, Google Accessibility Design Guidelines.

Team Member	Responsibility	Existing Skill Level (%)	Skills to Learn	Learning Plan
Michael West	Quality Assurance	65%	Automated Testing, Selenium, Postman.	Start: Nov 21, 2024 End: Feb15, 2025 Resources: Selenium tutorials, Postman guides.
Subhan Mohammed Abdul	Assistant Developer	60%	Angular framework, Git basics.	Start: Nov 21, 2024 End: Feb15, 2025 Resources: FreeCodeCamp Angular tutorial, Git for Beginners.