

1.2 Project Proposal

Scope of Work

The extent of a top-tier project is determined by thoroughly examining the project requirements supplied by the client. The operational scope encompasses all tasks for execution during design and project development. Any project task not outlined in the scope of work or needed later by the client will be treated as additional work, incurring corresponding extra charges. The project scope is allocated across the milestones outlined below and will be implemented within the same phase.

Milestones

1. Milestone 1: Project Analysis
2. Milestone 2: TYPO3 Backend Development
3. Milestone 3: Quality Analysis/Testing
4. Milestone 4: Speed & Performance Optimization
5. Milestone 5: Delivery & Deployment

Milestone 1: Project Analysis & Setup

1. Requirement Gathering
2. Project Proposal & Finalize
3. Kick-off Meeting

Milestone 2: TYPO3 Development

1. Backend Modules

- 1.1. Manage Clients (fe_users)
 - 1.1.1. Create Client
 - 1.1.1.1. Add fe_user
 - 1.1.1.2. Choose Product
 - 1.1.1.3. Other Information
 - 1.1.1.4. Create New Client at SSO Keycloak
 - 1.1.1.5. Create Client at Golang API
 - 1.1.1.6. Send an Email to the Client
 - 1.1.2. Reset New Password (from First-time email)
 - 1.1.3. Update Client
 - 1.1.4. Delete Client (from SSO too)
- 1.2. Manage Products
 - 1.2.1. Add/Edit/Delete Products
- 1.3. Cronjob / Schedulers
 - 1.3.1. Get Products from Golang API
 - 1.3.2. Co-relation Between Clients (fe_users) & Golang API (client_id)
 - 1.3.3. Co-relation Between Products & Clients (fe_users)

2. Frontend Plugins

- 2.1. Client Login
 - 2.1.1. Setup EXT:felogin
 - 2.1.2. Custom Extension Development
 - 2.1.2.1. Prepare API for Keycloak
 - 2.1.2.2. Request to SSO Keycloak
 - 2.1.2.3. Response for Success/Failure of Login
 - 2.1.3. Remember Me Feature
 - 2.1.4. Forgot Password
- 2.2. Dashboard
 - 2.2.1. Overview
 - 2.2.1.1. R1: Predication Events
 - 2.2.1.2. R2: CO2 Commission Saved
 - 2.2.1.3. R3: Savings Until Now
 - 2.2.1.4. R4: Predictions Used
 - 2.2.1.5. R5: EURO Saved / CO2 Commissions
 - 2.2.2. Settings
 - 2.2.2.1. Reset Password
 - 2.2.2.2. Subscribe/Unsubscribe Newsletter
 - 2.2.3. Support
 - 2.2.3.1. Request Support (link to Extenal)
 - 2.2.4. Integration
 - 2.2.4.1. Accordion Element
 - 2.2.5. API Documentation
 - 2.2.5.1. Sub-Navigation (1/2 levels menu)
 - 2.2.5.2. Docs Content
- 2.3. Newsletter
 - 2.3.1. Subscribe
 - 2.3.2. Unsubscribe

Milestone 3: Quality Analysis/Testing

1. Testing Cases and Environment
 - 1.1. Cross-Platform Testing
 - 1.2. UX/UI - Design Testing
 - 1.3. Functional Testing
 - 1.4. Backend Usability Testing
2. Issues/Bug Fixing
3. Review Issues/Bugs

Milestone 4: Speed & Performance Optimization

1. TYPO3 Backend Manual
2. Code Review
 - 2.1. Code indentation, name conventions and comments etc.,
 - 2.2. Code clean-up
 - 2.3. Check code redundant
 - 2.4. Check code according to TYPO3 industry standard
3. Enable TYPO3 Cache
4. Image Optimization
5. Optimize TYPO3 with configuration
6. Generate Performance Report
 - 6.1. Google Page Speed Insight
 - 6.2. GTMatrix
 - 6.3. Pingdom

Milestone 7: Delivery & Deployment

1. Deployment to Dev/Live Server
2. Git CI/CD Auto-deployment

Questions/Confirmations

N/A

Technology & Standards

Frontend	TYPO3	Server
HTML 5	TYPO3 12.x LTS	LAMP Platform
CSS 3	TYPO3 Fluid - Template Engine	PHP >= 8.2.x
Bootstrap 5.x	TYPO3 Extbase/Fluid - Extension Development	MySQL >= 5.5.x
Vanilla JS	Flexible Content Element	Apache >= 2.x
Nodejs	TYPO3 Coding Guideline (CGL)	
<u>Yarnjs</u>	TypoScript	

Development Approach

Following is our standards development approach for all the TYPO3 projects.

- Composer 2.0 - For better speed and performance of composer
- Docker 20.x - Container-based development
- DDEV 1.x - Open Source local development based on Docker
- Deployer 6.x - Most popular PHP deployment tool (with Rsync configuration)
- Bitbucket CI/CD - Set pipelines, automatic code review, deployment to the server
- Fresh TYPO3 v12.x Installation
- Semantic Versioning 2.0
- Release Management (release deployment to particular server through Bitbucket > Release tag)
- Composer Auto Install/Update while releasing to server
- Frontend Auto Build while releasing to server
- Servers Context
 - Production Server
 - Staging Server
 - Development Server
- TYPO3 Application Level Context
 - Git Branches (main, staging, develop)
 - DDEV Context
 - TYPO3 Application Context
 - TYPO3 Site Configuration
 - .env Environment
 - Gitlab CI/CD Configuration
- Automatic Code Lints/Review
 - .Editorconfig
 - PHP Lint (PHP-Stan + PHP-CS-Fixer)
 - YAML Lint
 - TypoScript Lint
 - Fluid Lint

Development Tools

Purpose of use	Tool Name
Communication Tools	Gmail, Skype, Slack, Hangout
Development Tools	VS Code, Docker, DDEV, Deployer
Project Management Tools	support.nitsantech.com
Code Management Tools	Version Control System: Git, GitHub, GitLab, Bitbucket

Resources Allocation

Resource	No. of Resource	Experience
Project Manager	1	6+ Years
TYPO3 Developer	1	4+ Years
Frontend Developer	1	4+ Years
QA/Tester	1	3+ Years

Platform Compatibility

Platform	Version
Operating System	
MAC	14.x
Windows	11.x
Browser	
Chrome	Latest and 2nd latest version
Firefox	Latest and 2nd latest version
EDGE	Latest and 2nd latest version
Internet Explorer	Latest and 2nd latest version
Safari	Latest and 2nd latest version
Devices	
Android	14.x
iOS	17.x
Smartphones	Panel and landscape format
Tablets	Panel and landscape format