

## 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 & Setup
2. Milestone 2: Frontend Development
3. Milestone 3: TYPO3 Backend Development
4. Milestone 4: Quality Analysis/Testing
5. Milestone 5: Speed & Performance Optimization
6. Milestone 6: Content Integration
7. Milestone 7: Delivery & Deployment

#### Milestone 1: Project Analysis & Setup

1. Requirement Gathering
2. Project Proposal & [Finalize](#)
3. Kick-off Meeting
4. Initiate Bitbucket
5. Setup Bitbucket CI/CD for Auto-deployment

#### Milestone 2: Frontend Development

1. Frontend Technologies Setup
  - 1.1. HTML5/CSS3
  - 1.2. Vanilla JavaScript
  - 1.3. Bootstrap v5
  - 1.4. SASS
  - 1.5. [Nodejs/Yarnjs](#)
  - 1.6. Webpack
  - 1.7. Encore
  - 1.8. NPM Packages
2. Pages/Layout/Components Development
3. Responsive Web Design (RWD)
4. Modern Styles & Effects
5. Cross-Browsers Compatibility
6. Devices Compatibility (Desktop, Tablet, Mobile)
7. Typography
8. Validate W3C
9. Code Review

#### Milestone 3: TYPO3 Backend Development

1. Setup Server
  - 1.1. [Docker/DDEV](#)
  - 1.2. Gitlab Repository
  - 1.3. Automatic Deployment CI/CD
2. TYPO3 12.x LTS
  - 2.1. Installation & Configuration (via Composer)
  - 2.2. Setup [Basetheme](#) & [Childtheme](#) Concept
3. Integrate Header/Footer
4. TYPO3 Frontend Development/Integration (Extbase/Fluid)
  - 4.1. TYPO3 Core Content Element
  - 4.2. Atomic Design Components Integration (TYPO3 Custom Content Elements)
5. Home Page
  - 5.1. Hero Slider
  - 5.2. Latest News
  - 5.3. Grid Container (1/2/3 columns)
  - 5.4. Text with Images (multiple variances of left/right)
  - 5.5. CTA
6. About Page
  - 6.1. Header Banner
  - 6.2. Breadcrumb
  - 6.3. Introduction
  - 6.4. Team Element
  - 6.5. Gallery
7. News Extension
  - 7.1. News Listing
  - 7.2. News Detail
8. Event Calendar
  - 8.1. Introduction
  - 8.2. Calendar Filter
  - 8.3. Events Listing
  - 8.4. Event Detail Popup
  - 8.5. Event Booking Form
9. Appointment Booking Element (Hubspot/Calendly iframe integrate)
10. Search Feature (EXT:ke\_search)
11. Embed Google Translate at Header/Footer
12. [GDPR](#) Cookie (via [Cookiebot.com](#))
13. TYPO3 TER Extensions
  - 13.1. EXT.ns\_basetheme
  - 13.2. EXT.ns\_theme\_child
  - 13.3. EXT:[staticfilecache](#)
  - 13.4. EXT:container
  - 13.5. EXT:mask
14. Cookie Consent 3rd party tool like [cookibot](#)

#### Milestone 4: 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 5: Speed & Performance Optimization

1. Basic SEO Setup
  - 1.1. RealURL
  - 1.2. Meta-data
  - 1.3. Google Sitemap
  - 1.4. 404 Error Page
  - 1.5. Non-www to www
2. Basic GDPR Compliance
  - 2.1. Add Cookie bar
  - 2.2. Add Privacy Policy Page
  - 2.3. Configure HTTPS URL in TYPO3
3. TYPO3 Backend Manual
4. Code Review
  - 4.1. Code indentation, name conventions and comments etc.,
  - 4.2. Code clean-up
  - 4.3. Check code redundant
  - 4.4. Check code according to TYPO3 industry standard
5. Enable TYPO3 Cache
6. Install and configure EXT:[staticfilecache](#) (if required)
7. Compression/Concatenate CSS and JS
8. Image Optimization
9. [Optimize](#) TYPO3 with configuration
10. Generate Performance Report
  - 10.1. Google Page Speed Insight
  - 10.2. GTMatrix
  - 10.3. Pingdom

#### Milestone 6: Content Integration

N/A

#### 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)	
<a href="#">Yarnjs</a>	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
<b>Operating System</b>	
MAC	14.x
Windows	11.x
<b>Browser</b>	
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
<b>Devices</b>	
Android	14.x
iOS	17.x
Smartphones	Panel and landscape format
Tablets	Panel and landscape format