

Test Project

*Web Technologies
CMS and Layout*

Submitted by:
Thomas Seng Hin Mak (Skill Competition Manager)
Franz Stimpfl AT (Lead Expert)
Diyaa BenKhadra AE
Abraham Quesada Castro CR
MarkKu Ruonavaara FI
Richard Wu Sui LunHK
Zabin Alharbi SA
Oscar Ekholm SE
Mark DuBois US
Jotham Hernandez PH
Alexandru Podariu RO



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Introduction

You are a freelancer working in the field of Web Technologies and you have been asked to develop the brand-new website for Kazan's most beautiful museums. Your client has heard that you are good at building content management system.

Description of project and tasks

This module involves knowledge about website design, website layout techniques, client-side scripting, and server-side scripting, all combined in one CMS project. You will be using one of the most popular content management systems - WordPress.

Your job is to develop a website backed by content management system. Please create your own theme as a child-theme of a given starter WordPress theme. Please name your theme **Kazan_MuseumTour**.

The goal of this website is to present museums in Kazan, with some selected museums that contain extra news information. It also gives a list of upcoming events. The goal of this website is to present an overview of all available museums in Kazan and to give a list of upcoming events, which could be of interest to all tourists visiting Kazan. The target audience for this page are tourists visiting Kazan. This can be a wide range, therefore you will define your interpretation of the target audience (based on "tourists visiting Kazan") and document this definition in your submission. Also please make sure you have the heading-title and tagline-slogan defined in the content management system.

The admin and editor need to have the possibility to add and modify every entry for each museum to either update existing information or add new museums to the list.

Content Management System

For administration tasks, we need two user profiles, Admin and Editor:

- The Admin user - access to the complete WordPress main dashboard.
 - Username: admin
 - Password: admin
- The Editor user – access as editor role in the CMS.
 - Username: editor
 - Password: editor

We want the CMS login page to be white-label. That means the login page should not show the CMS default logo. The background should be a fullscreen museum photo from one of the museums.

Also the login page should not include any "wp" wordings for white-label reasons. Please make the backend admin URL as following: <host>/admin/

Managing Museums and pages

The client wants to be able to add, edit, update, delete museums records. There are selected museums to have custom museum page.

Selected (highlighted) Museums

The client wants to highlight the following selected museums. This list is static. In the future, the client may want to add or remove museums from the selected list. But this is not in the current scope of work.

- Soviet Lifestyle Museum
- National Museum of the Republic of Tatarstan
- Museum of National Culture
- Chak-Chak Museum

For museum pages that are listed above, they have different layout than general pages. The client would like to have large full-page background with the museum photo. This photo is selected by featured photo of the page.

Also, we need news posts from this specific museum to be displayed in the page.

All other museums

For museum pages that are not on the selected list, general page template is enough. There is no need to show museum specific news post in these museum pages. This general page should have a large photo banner as header. This photo is selected by featured photo of the page.

News Blog Post

From time to time, there will be news from the website as well as from specific museum. These blog posts should be categorized.

The client wants to show news posts from all categories in the home page. While in the specific museum page, the client wants to show news posts from only the category for the museum.

Post Categories

- Site Updates
- Seasonal Events
- Each selected museums

Pages and URL Strategy

Accessibility is very important to our website. We would like to leverage different levels of accessibility optimization.

URL level of accessibility

All museums page should have its own URL permalink. For example, the page for museum of national culture may have URL: <host>/museum-of-national-culture/

News posts should have following URL structure:

- All news: <host>/news/
- News from a category: <host>/news/<category name>

Dashboard Configuration

The client wants to have At a Glance, Activity, Quick Draft in the dashboard. Please configure these dashboard widgets and remove all others in the dashboard.

Contact Form

The client does not have budget to build a contact form right now. We choose to use free static form to email service for the contact form. This is done by a static form with action pointing to the following URL. Please configure to send the email to **admin@example.com**.

POST <https://formspree.io/email@domain.tld>

The form should have the following input field: name, email, content.

You may find a form example code in the media file.

Menus

The menu should stick to the top when scrolling down the page. The menu has the following items.

- Home
- Museums (Drop down menu)
- Seasonal Events (List posts from categories "seasonal events" from all museums)

Front-end Requirement

You will need to create your own theme, based on the given starter themes. You will need to implement the following elements for your web page:

- A footer with copyrights and social media links
 - o **"Copyright © 2019 - All rights reserved"** where the year should be the current year dynamically based on server time.
 - o Footer plugins should be used for footer Links-links to Twitter, Facebook and Instagram.
User is able to change the social links.

Feel free to add and change as many elements as you like, but the elements in the list need to be present and your design should blend in with the given design.

The client does not like refreshing the whole page. Page transition should be loaded via JavaScript with animated transition effect. (This does not apply to admin area)

Home Page Layout Columns strategy and mockup

The layout should be responsive for different screens including mobile and desktop.

Home page in desktop screen should have a multiple columns layout. Left half is the news and right half is some kinds of cover and images.

Home page in mobile screen should have a top-down layout strategy. Each column take the full width of the screen, except for the list of selected ~~meseums~~museum. They should have a left and right 2 columns layout.

Further optimization tasks

The page needs to be optimized for search engines.

You can choose one of the provided plugins or implement your own SEO.

Remember to optimize certain parts of your website (e.g. urls, sitemap, ...).

Secure your page by installing and configuring a security plugin.

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Note: If the plugin you would like to choose is broken or does not work as expected, you need to choose another one or feel free to fix this plugin.

Instructions to the Competitor

The page should follow the Web Content Accessibility Guide.

Publish the finished website on: http://XX.skill17.com/YY/cms_module

XX is workstation number. YY is your country code.

Equipment, machinery, installations, and materials required

ITEM	DESCRIPTION
advanced-custom-fields.5.8.0.zip	Plugin
all-in-one-wp-security-and-firewall.zip	Plugin
autodescription.3.2.4.zip	Plugin
blankslate.2019.1.zip	Theme
contact-form-7.5.1.3.zip	Plugin
contact-form-plugin.4.1.5.zip	Plugin
contact-forms-builder.1.5.2.zip	Plugin
elegant-responsive-content-slider.1.0.1.zip	Plugin
jetpack-6.9.zip	Plugin
sample_underscores.zip	Theme
seo-by-rank-math.1.0.24.zip	Plugin
wonderplugin-carousel-free.zip	Plugin
wordfence.7.3.2.zip	Plugin
wordpress-seo.11.2.1.zip	Plugin
wp-responsive-jquery-slider.1.7.zip	Plugin

Marking Scheme

SECTION	CRITERION	JUDGEMENT MARKS	MEASUREMENT MARKS	TOTAL
B1	CMS Theme	0	3.0	3.0
B2	CMS Configuration	0	3.75	3.75
B3	CMS Design	1.5	1.5	3
B4	CMS Layout	3.0	3.5	6.5
B5	CMS Category	0.5	3.25	3.75
B6	CMS Admin	0.25	2.25	2.5