ISU Corp Software Development

Consulting Services

.net Core Developer Technical Test

June 2020

Technical Test Description

Hello and thank you for your interest in applying to join our world class development firm. We take pride on telling our clients that all members of our software development team are the best of the best.

The reason why we do this test is to be sure you have good and sound development skills in all layers of a typical software project. We know that we cannot expect to have you as an expert in all areas, however we do know that we need developers that can do research and have exceptional abilities to learn by themselves. This skill is valued above all skills as technology changes all the time and our projects are always very different from each other.

Test Project:

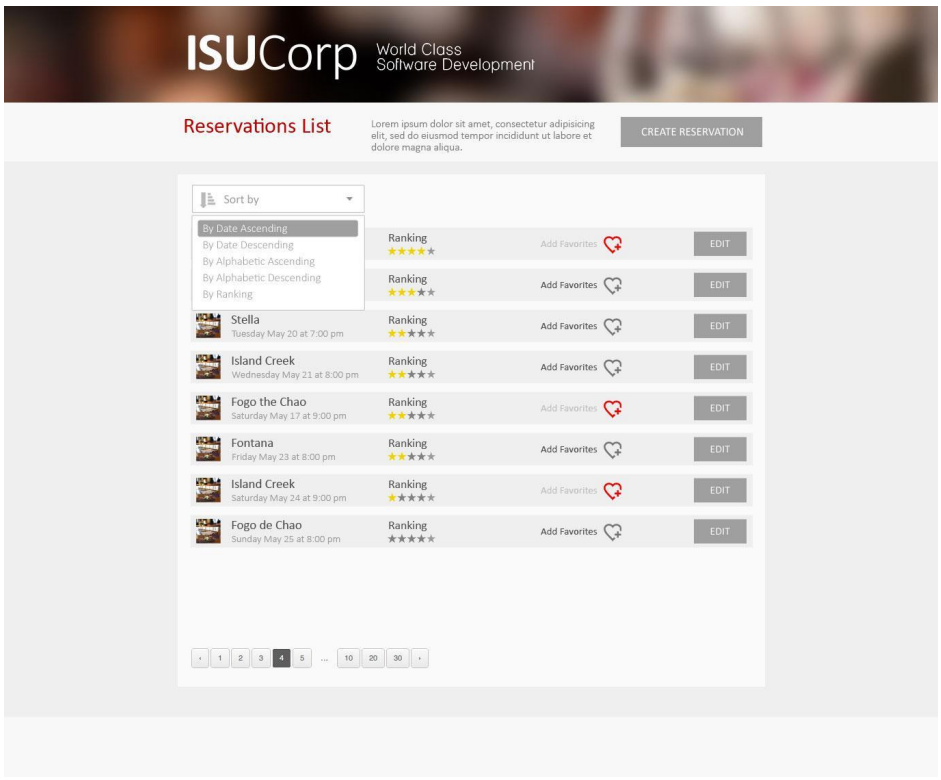
You will be allocated 5 concurrent days to complete this test. We feel it will give you more than enough time to complete and do your research for the areas that you do not know.

The items that will be evaluated are:

- Requirements understanding, please read everything, we're open to answer all questions you might have
- N-tier application development.
- Aptitude to learn and to use new components.
- Clarity and quality of your source code.
- Source code documentation (in the code files)
- Data validation: both in UI and backend.
- Make your app available as a Git repository (Github, Gitlab, Bitbucket, etc.) and have one initial commit and at least a second one with proper comments explaining what was committed.
- Technology:
    - Latest version of ASP .net Core MVC
    - .net Core OOP knowledge.
    - Web site development using latest version Angular
    - Implementing internationalization using Angular i18n
    - HTML5 / CSS
    - ASP.NET Core with Entity Framework Core Code-First
    - My SQL, Postgres or SQL Server for the database
        - Knowledge: primary keys and foreign keys must be in place.
        - Creation and utilization of stored procedures.

Specifications:

This is a very small reservation system. When the application loads, it needs to take you to the reservation list, from there the user can click on the Create reservation button that will take them to the create / edit contact and create reservation form.



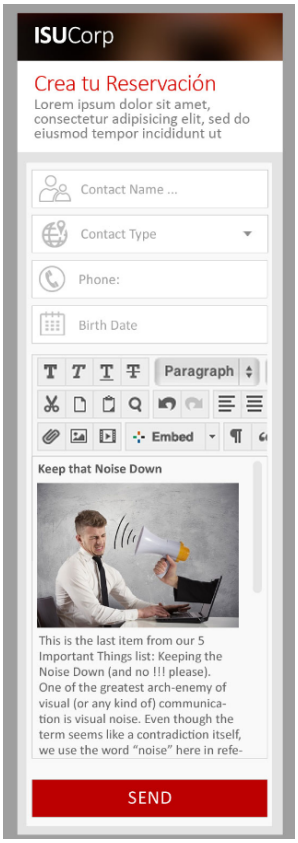
Create a Contact and Reservation form that looks as close as possible as the attached images. Please note that you also have access to the JPG files.

The forms must be made using the latest front-end technologies including responsive layout (see the responsive design attached) and Angular 4 or latter / html5.

From there you need to have a button that takes you to a reservation list with all the reservations (see above) Please note that one contact can have multiple reservations.

When the user is entering a contact name, the system has to search for that contact in the database, if not found then it will create a new one, if found it will auto fill the contact type, phone number and birthdate.

ISUCorp
World Class
Software Development
Create Reservation
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
Contact Name ...
Contact Type
Phone:
Birth Date
Contact Type 1
Contact Type 2
Contact Type 3
Formats
July 2014
Keep that Noise Down
This is the last item from our 5 Important Things list: Keeping the Noise Down (and no !!! please).
One of the greatest arch-enemy of visual (or any kind of) communication is visual noise. Even though the term seems like a contradiction itself, we use the word "noise" here in reference to visual interference and saturation.
There are different kinds of visual noise.
There are many pages out there that closely resemble New York's 5th Avenue at night time. Overwhelming lots of information competing with each other, all screaming at us at the same time: calls to action, buy buttons, subscriptions, exclamation point, so much so that we don't know where to place our gaze.
There is also background noise, not too loud but enough to be distracting; like a distant, humming sound that you don't quite notice until it stops.
SEND


ISUCorp
Crea tu Reservación
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut
Contact Name ...
Contact Type
Phone:
Birth Date
Paragraph
Embed
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SEND

Also add two buttons to the Create Contact Form banner: List and Edit. When the user clicks on list, create a list page that starts after the banner, the list grid must contain the following fields:

Contact name
Phone number
Birth date
Contact type (look up description from other table)

The list must be sortable by clicking on each of the grid header. Also the list must have pagination implemented.

User must be able to add, edit and delete contacts. Add and edit must be done in a separate page. Mandatory fields are contact name, birth date and contact type. For contact type use a dropdown
For the date you must use a calendar control but also allow users to type in the date in the field. All field need to have proper tab other.

For the description field on the Add and Edit Form be sure to research and add a rich text editor component that looks as close as possible to the image provided.