**Project Overview**

We are beginning a project in which we are looking to transition our current print invoices to be delivered via our portal. We would like our user to be able to click a link and be displayed a pdf of their invoice. We are looking to accomplish this through an HTML/CSS to PDF microservice using Google Chrome in “headless” mode (i.e. <https://github.com/esbenp/pdf-bot>).

| Project Scope |
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| The deliverables for this project are:   1. An HTML template adhering to our specification 2. A .NET procedure for binding JSON to HTML 3. Any applicable JavaScript required to perform the above.   The scope of the project will be to create the HTML/CSS webpage using Plain HTML/CSS to be consumed by the PDF microservice. The goal of the rendered webpage will be to replicate the print version of the invoice as closely as possible.  The project application should produce a text/html response containing HTML populated with data from the JSON input. We would like you to develop a procedure for binding the JSON to this HTML template. This code will be used in Emerald’s Azure Function App, where we already have the JSON is scope and need to create the HTML document from it. We would like the function to consume the HTML document as a template, and the JSON data we provide. The output of the procedure should be either an HTML document containing the data from JSON, or a string representation of HTML containing the data from JSON.  The JSON object will contain data to set the font, table and font colors, image location references, and various text for variable mapping. Sample JSON files will be provided containing date to create 1,2- and 3-page invoice samples. This project will also include logic and functionality to support rendering the webpage to pdf using standard CSS paged media elements.  This project will not include creating the web application to transform html to pdf. Emerald will be creating an Azure Function App using the .NET Runtime Stack and Webhooks. This function will accept JSON representing our statement as a Request body input. Emerald will handle the main Azure Function development, including the main entry point (run.csx), and the response. Emerald will also handle the security, deployment, and management of the Function App.  This project will not include creating the logic to support multiple languages. Emerald will be responsible for adapting the created English template and mappings for additional languages. |

| Project Documents |
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| JSON Examples |
| JSON Mapping Reference |
| Rendered PDF Samples |
| PDF Microservice Proof of Concept |
| Web Images |

| Project Schedule |
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| Work will commence on this project on the contract signing date and is estimated to be completed \_\_\_ weeks after the project commencement date. This statement of work shall remain in effect until all deliverables under this statement of work are provided to the Emerald AR Systems, or until this statement of work is terminated. is responsible for ensuring the quality of the final work agree to provide email and phone technical support as needed.” |

| Req. ID | Functional Requirement Description | Development Comments |
| --- | --- | --- |
|  | The webpage will comprise the following section and elements.   1. Header Section (logo, return address, summary table) 2. First Page Section (mailing address, contact table, text) 3. Column Header Section (column names) 4. Repeating Data Rows (data rows) 5. Footer Section (payment table, payment address, summary table) 6. Page Number Section (dynamic page number) 7. Multi-page Text Row -*only populated on multi-page pdf pages*   **One Page Wireframe**    **Multi-page Wireframe** |  |
|  | All text, logo mappings, font types and color would be dynamically set based on the JSON data. |  |
|  | Font sizes of various elements will be set to match the provided samples. |  |
|  | Logo should be mapped to a rendered Logo size of 3 in x 0.75 in (216px x 54px) and a location of 39px 17 px from the top left corner to insure proper alignment within the envelope. |  |
|  | This project will also include logic and functionality to support rendering the webpage to pdf using standard CSS paged media elements. These elements should include:   1. Setting page size (8.5in x 11in portrait) 2. Page Count 3. Page Margins 4. Page Breaks (includes logic for repeated table headers and text) 5. Other CSS elements required to achieve desired layout |  |
|  | Support ISO-8859-1 characters for multi-language character encodings (currently English and Spanish). |  |
|  | We would like you to build the logic to split multiple pages using repeatable headers. |  |
|  | Preferred technology environment will be .NET coded in C#. |  |