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| **PROJECT NAME** | Auto Generating Invoices for Overweight, X-Ray Services and manual inspection services. |

| Version Number | Change Request No | Affected system | Date | Author/Owner | Developer  Name | Description of Change | Implemented Objects (DB) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2.0 | CR125023 | EXPRESS | 22/1/2019 |  | Abdelsalam Mustafa | Minor Change |  |
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| **PROJECT** |
| **OVERVIEW | *high-level information describing proposed solution and business reasoning*** |
| * + Modify the adding service pages to ensure that user do not save the service more than one time. |
| **OBJECTIVE | what *does the project work to achieve?*** |
| Saving time by automating the generation of Export X-Ray Services invoices and Export manual inspection Services invoices |
| **BUSINESS CASE | what *is the problem being solved? Who / what is impacted? What are the business benefits?*** |
| Creating invoices manual referring to mails sent.  Customer Service, Finance and External Customers are the impacted persons.  The benefits are saving time automating the generation of Export X-Ray Services invoices and Export manual inspection Services invoices. |
| **RISKS | what *are the identified or considered risks?*** |
| Data loss which is handled using backups.  Server down and is handled by using the load balancer on servers. |
| **OUT OF SCOPE | what *activities, items, and capabilities are out of scope for the project?*** |
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| **SERVER REQUESTS** |
| **List required server needs, file names, or attached completed request forms.** |
| * Server:   + 2 servers with latest version of .NET framework and latest version of ORACLE client. Load balancer concept need to be implemented to handle the server failure. |
| **ACCESS REQUIREMENTS** |
| **Define number of users requiring simultaneous access, and list user communities (developers, IT, vendors, etc.).** |
| Only External Customers (Truckers) users will use the system |
| **DATABASES** |
| **Describe each database required and its function. Include database version required, Oracle or SQL server, memory requirements, CPU requirements, storage amount needed in first year in GB, projected annual growth in % or GB, expected transaction volume, special data preservation requirements, and tech spec data sheet if available.** |
| * Operating System: Windows Server 2012 R2 Standard. * Processor: Intel® Xeon® CPU E5-2690 v4 @ 2.60 GHz (4 Processors) * RAM: 32.0 GB * DB Client: ORACLE 12 - 4.122.1.0 * .NET Framework: 4.5.2 or greater. |

**Old Source Code:**

1. ***Xray Export***

Page to add XRAY service for seleced export containers

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1. ***Xray import***

Page to add XRAY service for seleced import containers



1. ***Export Inspection***

Page to add Manual Inspection service for seleced export containers

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1. ***Overweight***

Page to add Overweight service for seleced export containers

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**New Source Code:**

***Web Application:***

1. ***Xray Export***

Page to add XRAY service for seleced export containers

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1. ***Xray import***

Page to add XRAY service for seleced import containers

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1. ***Export Inspection***

Page to add Manual Inspection service for seleced export containers

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1. ***Overweight***

Page to add Overweight service for seleced export containers

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**Changed Part Of Code:**

Modification on the interface only to make sure that user click the save buttone once only.

This is handled by showing a message to the user that service added successfully and redirect him back to the home page.

**SOFTWARE DEVELOPMENT FOLDER CHECK-OFF SHEET**

**Requirements**

* Has each requirement in the functional requirements document allocated to this unit been identified using the trace ability matrix?
* Have derived requirements found during the development of this unit been identified, justified, and put in the functional requirements document?

**Functionality**

* Is the functionality of this unit fully described?
* Is the description in narrative form?
* Was a design walk-through conducted?
* Was permission granted to begin programming?

**Source Code**

* Is the source code listing of the unit included in this folder?

**Libraries, Directories, and Tables**

* Are all coded entities included in the folder?

**Development Methodologies**

* Are all development methodologies for the development effort described in the folder?

**Test Data**

* Are all data necessary to conduct testing referenced in this folder?

**Test Analysis**

* Was the unit thoroughly tested and were all logical paths verified’?

**System Developer**

I certify that this software development document is complete, the unit **Auto Generating Invoices for Overweight, X-Ray Services and manual inspection services.**defined in this folder has successfully completed development and unit testing, and the unit is ready to be base lined and integrated into the system

Date: 22/01/2019 System Developer: Abdelsalam Mustafa

System Technical Lead Initials: Eng. Hamdy Hafez