**Project Charter**

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| **Title of the Project** | Inventory Management System with RESTful Web Service  for CODEX-Solutions |
| **Batch** | Weekend |
| **Development Technology** | C#, Web API Core, MSSQL  AngularJS 2, NodeJS, jQuery, HTML, Bootstrap  WPF |

**Description of the Project:**

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| The client Codex- Solutions is a software development and IT consultancy service at Pannipitiya. Our core concern is to design a software which can be deployed at any company and can be customized so as to handle their Inventory as outlined by the client. This includes the functions of ensuring efficient tracking of stocks details and timely ordering , transaction management, handle inventory access, return and wastage management, offers scheduling and provide a full range of reports that will satisfy statistical requirements .  The software consist of a Web API (RESTful web service) as the central datasource, client applications including a desktop application (WPF application) and a web based application (Angular 2 application). |

**Details of the Group Members:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name with Initials | Registration Number | Contact Number | Email |
|  | Basnayake M.C.S.B. | IT16158764 | 0778511690 | chathurangabasnayake@outlook.com |
|  | Amarasinghe U.P.A.S.D | IT16160330 | 0779955111 | samithdilsh@gmail.com |
|  | Rodrigo U.S.D | IT16154490 | 0772772682 | dilee1st.1995@gmail.com |
|  | Bimali Y.M.Y. | IT16423534 | 0777668498 | b.yapabmmv@gmail.com |
|  | Rajapakshe R.W.D.K.P | IT16225916 | 0771617349 | kaveendrarajapakshe@gmail.com |
|  | H.S.K.Wijesekara | IT16130562 | 0771993040 | harinwijesekara@gmail.com |
|  | U.S.O.Vindula | IT16161566 | 0779766605 | ovinud99@gmail.com |
|  | L.L.K.S.Lokuge | IT16133914 | 0713947924 | kawee@live.co.uk |

**List of Functions Developed by the Group Members:**

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|  | Name with Initials | Function-in-charge | Brief Description of the Function |
|  | Basnayake M.C.S.B. | Sales & Invoice Managements | * Invoice make, customize, cancellation, delete (add, update, delete) * Invoice printing * Stocks update * Syncing local DB from WebAPI * Internet connectivity checking & data source selection * Multiple payment methods for single * Multiple Invoice holding * Reports generating |
|  | Amarasinghe U.P.A.S.D | Employee Management & Authentication | * Add, delete, update & display Employees. * User login and authentication keys management * Add, update, delete & display user accounts * User Roles add, update, delete & display * Manage user permissions * Branches Add, delete, update & display Branch token handle. * System Initializing (Company name, Logo, description, etc.) * Higher authorization request & notifications handling * Reports generating. |
|  | Rodrigo U.S.D | Promotions Schedules & Discounts Schedules Managements | * Discount schedules add, update, delete & display * Promotion schedules add, update, delete & display * Promotion expire notification * Gift vouchers handling * Reports generating |
|  | Bimali Y.M.Y. | Stocks Managements | * Stocks add, update, delete & display * Trans in/out stocks request * Recounting stocks (re-correcting stocks) * Promotional Stocks handling * Stock low notifications * Reports generating |

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|  | Rajapakshe R.W.D.K.P | Suppliers Management & Stocks Ordering | * Add, update, delete & display suppliers * Suppliers returning day notifications * Addition costs handling (Transports, Price correcting etc.) * Automatic order calculations due to previous sales * Suppliers payment & credit limit handling * Reports generating |
|  | H.S.K.Wijesekara | Products Managements | * Add, update, delete products * Categories & Subcategories price codes, add, update, delete & display * Products Sections managing * Label generating * Products expire notifications handling. * Reports generating |
|  | U.S.O.Vindula | Return & Wastage Management | * Products returning from customers * Products returns to suppliers * Stocks update with returning * Reports generating. * Wastage stocks handling |
|  | L.L.K.S.Lokuge | Customers & Loyalty Cards Management | * Add, delete, update & view customers * Customer credits limit handling * Customer registrations (Sign Up / Login) * Loyalty cards add, update, delete view * Loyalty points handling * Loyalty points redeem * Pre-Order request add, delete, update display * Reports generating |

**PS\* - User management function updated to Employee management with some extra functions following the discussion with supervisor.**

**Student Declaration:**

I have read and understood all the instructions provided under the initial guidelines and the unit outline. Further I agree to follow the guidelines and instructions provided to me during the semester via lectures, labs, tutorials and Moodle. I am aware that failing to follow these instructions and guidelines will affect my marks and the grade of this unit.

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| --- | --- | --- | --- |
|  | Name with Initials | Registration Number | Signature |
|  | Basnayake M.C.S.B. | IT16158764 |  |
|  | Amarasinghe U.P.A.S.D | IT16160330 |  |
|  | Rodrigo U.S.D | IT16154490 |  |
|  | Bimali Y.M.Y. | IT16423534 |  |
|  | Rajapakshe R.W.D.K.P | IT16225916 |  |
|  | H.S.K.Wijesekara | IT16130562 |  |
|  | U.S.O.Vindula | IT16161566 |  |
|  | L.L.K.S.Lokuge | IT16133914 |  |

**Approval of the Lecturer:**

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| --- | --- |
| Lecturer’s Approval is Granted | |
| **Name** |  |
| **Date** |  |
| **Signature** |  |