**2016 Weekend Batch 2nd Year 2nd Semester ITP Project**

**Project –** Web-based Inventory Management System with RESTful Web Service

**Client –** Codex-Solutions (Harsha Matharage | 0777 564 480 | harsha.matarage@gmail.com)

**Development Name –** **AppITP**

GitHub Team - <https://github.com/WeAreSLIIT>

GitHub Repository - <https://github.com/WeAreSLIIT/AppITP>

Trello Team - <https://trello.com/wearesliit>

Trello Board - <https://trello.com/b/6TTpqjXc/appitp-2nd-year-itp-project>

WhatsApp Group - <https://chat.whatsapp.com/3yVUgeEadBwDVbb4b9lfQ4>

Telegram Group - <https://t.me/joinchat/Cic09wtnInONWBXhM7JFgA>

Facebook Group - <https://www.facebook.com/groups/183314808872100/>

**Team Members**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name with Initials | Registration Number | Contact Phone Number | Email |
|  | Basnayake M.C.S.B. | IT16158764 | 0778511690 | chathurangabasnayake@outlook.com |
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**Main Categorized Functions**

* User Management & Authentications
* Products Management & Stock Management
* Promotions, Discount Schedules Management
* Customers Management & Loyalty Cards Management
* Suppliers Management & Stocks Ordering
* Sales & Invoices Management
* Delivery Services & Transports Management
* Return Items Management & Wastage Management

**Described Functions**

**Categorized Name : User Management & Authentications**

**Function-in-Charge : Amarasinghe U.P.A.S.D**

* New user register / Add new user
* User Login & Session Management
* Authentication keys Handling
* Branch Handling
* User profile view
* Display users list, Sorting & Searching
* Deleting user profiles
* User Profile Modify
* User Roles Add & Delete
* User Permissions Customize
* User Restriction Handling
* System Information Modify (Company Name, Branch, Logo, etc.…)
* System features restricting (ex: - Some stores don’t need delivery feature)

**Categorized Name : Products Management & Stocks Management**

**Function-in-Charge : Basnayake M.C.S.B**

* Product Management
  + Add/ Edit/ Delete products
  + Add/ Edit/ Cancel Pre-Orders
  + Product View, Categorize, Search
  + Label Generating
  + Points Add/ Edit/ Remove
* Stock Management
  + Add/ Edit/ Delete stocks
  + View/ Search stocks
  + Send Notification when low stocks
  + Suggest Stocks with current usage
  + Recount Stocks
* Other
  + Image uploader image Add / Delete
  + Image URL returning function
  + Image cropping and resizing
  + Images backup & restore

**Categorized Name : Supply Management and Supply Transport**

**Function-in-Charge :**

* Supplier Management
  + Add/ Edit/ Delete
* Supply Transport Cost Management
* Order Stocks and Scheduling

**Categorized Name : Sales Management and Billing**

**Function-in-Charge :**

* Invoice Management
* Gift Vouchers
* Invoice Cancellation

**Categorized Name : Discount and Promotion Management**

**Function-in-Charge :**

* Discount for Time Period/ Special Stock/ Special Date
* Pay from Points

**Categorized Name : Delivery Management**

**Function-in-Charge :**

* Calculate price by dimension and weight
* Regular Transport/ Fast Transport (DHL)

**Categorized Name :**

**Function-in-Charge :**

* Customer returning item Management
  + Check Item can return
* Stock Returning
* Wastage Management

**Development Technologies**

**Backend Technologies – RESTful Webservice**

Database – MSSQL

Language – C#

Frameworks - ASP.NET Web API CORE, Entity Frameworks

Unit Testing - NUnit

**Frontend Technologies – Angular 2 Based Web Application**

Technologies – HTML5, CSS3, JavaScript

Frameworks - Bootstrap, jQuery, Angular 2.0

**Extra Frontends (if we have time)**

Technologies – WPF Application / Windows UWP App, XAML

Language – C#

**Additional Features (May be)**

* Backup & Restore
* Cards layout interface instead of tables
* Label Generator
* Barcode Reader
* Reporting with graphical charts