E M X

**Workers Sales & Benefits System**

**Drop 1 - Specification**

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Intro

The first drop (7/11/2017) will consist of the following:

**a firm basis:**

Server side technology choices

Database structure

Client side design choices

**Backbones of the following:**

Server side implementation

**Does not yet consist of these:**

Client side implementation

GitHub accounts:

<https://github.com/EMXWorkersBenefits/WorkersBenefits_server>

<https://github.com/EMXWorkersBenefits/WorkersBenefits_Client>

<https://github.com/EMXWorkersBenefits/WorkersBenefits_db>

<https://github.com/EMXWorkersBenefits/WorkersBenefits_docs>

Project structure

Server Technology Choices:

WebSite – Asp.net MVC 5 (with WebAPI)

Hierarchical Instantiation (Dependency Injection) – Microsoft Unity

Application State Management - In-Proc

Session State Management – In-Proc (<https://msdn.microsoft.com/en-us/library/ms178586.aspx>)

ORM Layer (Object-Relational-Mapper) - Microsoft NHibernate

DataObjects -> ViewObjects translation – AutoMapper

Caching – ASP.NET Web Caching

Logging – Log4net

RDBMS – MySQL Server

Unitesting – Asp.net MVC5 unitesting

SMS dispatch service – Goldman Israel SMS Services (<http://www.smsapi.co.il/>)

Client side Design Choices:

Languages – Javascript and TypeScript

MVC Framework – Google's Angular 4.0 CLI Scaffolding

Design Templates – W3C CSS templates (<https://www.w3schools.com/css/css_rwd_templates.asp>)

Browser Normalization - DR.Reset and js normalizers

Browser Polyfills – modernisr and respond js

Responsive Design – W3C CSS and Bootstrapp

Helper Libs – UnderscoreJS and LowDash.

Design Sketches - as in Appendix #A (at the end of this document)

Server Side Implementation:

Resides at GitHub: <https://github.com/EMXWorkersBenefits/WorkersBenefits_server>

Data Tier:

**EMX.WorkersBenefits.DAL**

Business Tier:  
**EMX.WorkersBenefits.BL**

Presentation Tier:

**EMX.WorkersBenefits.MVC**

**EMX.WorkersBenefits.Admin.MVC**

Tests:

**EMX.WorkersBenefits.Admin.MVC.Test (MVC test project)**

Cross Tier:

**EMX.WorkersBenefits.ProxyServices**

**EMX.WorkersBenefits.Shared**

Database

MySQL server database named "Workers\_Benefits" resides at GitHub at:

<https://github.com/EMXWorkersBenefits/WorkersBenefits_db>

Utilities choices:

Log4net viewing – YALV - <https://yalv.codeplex.com/>

HTTP REST testing - <https://chrome.google.com/webstore/detail/advanced-rest-client/hgmloofddffdnphfgcellkdfbfbjeloo>

Advanced rest client export projects is available on GitHub:

<https://github.com/EMXWorkersBenefits/WorkersBenefits_Docs/blob/master/workers_beneficts_arc_project.json>

Database Schema Designer – DBSchema (<https://www.dbschema.com/index.html>)

Development Server:

OnPremise / EMX

Or

[www.A2Hosting.com](http://www.A2Hosting.com) (Reseller Hosting plan)

Or

[www.Hostinger.com](http://www.Hostinger.com) ( Premium Web Hosting plan)

**Appendix #A – Client Side Design Sketches**

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**Document Version History**

**Date Version Change Author**

07-11-2017 1.0 Create Ori Ahdout