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Komsky Inc is a fictitious technology company based in London, UK. We specialize in producing IoT devices for board market

Komsky Ltd

ASP.NET MVC 5 with Development Patterns Training

LAB OVERVIEW

# Introduction

KOMSKY Ltd is a technology company producing IoT devices for the market.

# Use Cases

We have customers and they need a web interface where they submit their cases to Komsky to be resolved. Each case should have Case title, state, description, assigned agent, priority.

Below are the use cases that this application should cater for. However, you can make assumptions which are in line with the requirements.

* Each user belongs to Company
* Customer users shall be able to create cases
* Customer users shall be able to view their own company's cases
* Agents shall be able reply to customer cases
* Agents shall be able to pick cases from case pool and assign them to themselves.
* Agents can reply to any case but each case should only have one owner
* Admins shall be able to create and edit new Customers
* Admins shall be able to create users for Customers
* Admins shall be able to create agents
* Cases shall have discussion board where Customer users and agents discuss the cases
* Only authorized users shall be able to login to portal

# DEVELOPMENT METHODOLOGY

As with SCRUM and AGILE methodology, we want to deliver usable software, even if the only thing it will do is display a welcome page, create a ticket/case or allow user to log in. Within this iterative process we don’t always follow the shortest path to ultimate success, but rather a path that leads to local success, that is working application. Within, the path itself, utilizes workflow that emphasizes and explains design decisions in practise.

# Github REPOSIOTORY

I use GitHub to store materials for this training (Projects, Lab documents and PPTX). It’s publicly available here

https://github.com/komsky/Reporting.git

Lab 01

# Content:

Out target for this lab is to create a layered solution of projects to minimize refactoring of code later on. The three main layers of the project are going to be: Web (Interface Layer), Domain (Service Layer)

# General steps:

1. Create container solution with starter MVC 5 Web Application Project
2. Create specific project for solution layers used for patterns
3. Refactor MVC 5 template to use other projects without breaking changes and removing functionalities

## Task 1 - setup layers of your project

1. You might want to create your own repository for your solution in GIT or other version control system
2. Create new ASP.NET Application
   1. Name: Komsky.Web
   2. Solution: Komsky
   3. Leave other options as default
   4. Note the default authentication mode: Individual User Accounts
3. Run the project and make sure you are able to register, log in and log out.
4. Add to your solution following projects:
   1. Kind: Class Library | Name: Komsky.Services
   2. Kind: Class Library | Name: Komsky.Domain
   3. Kind: Class Library | Name: Komsky.Data.DataAccess
   4. Kind: Class Library | Name: Komsky.Data.Entities
   5. Further layer solution by creating folder Data and move two data project inside this folder
5. Move file IdentityModels.cs from Komsky.Web/Models to Komsky.Data.DataAccess
6. Update namespace inside IdentityModels.cs to resemble current file location
7. Install nugget Microsoft.AspNet.Identity.EntityFramework for Komsky.Data.DataAccess and Komsky.Data.Entities using Package Manager console with following instruction:

PM> install-package Microsoft.AspNet.Identity.EntityFramework

1. Add reference to Komsky.Data.DataAccess from Komsky.Web
2. Build and run your solution, debug any errors.