Office Automation System

(Main Parts: Personnel Management, Role Management, Permission Management, Site Search, Company Profile, and Some WorkFlow)

By: Lingchen Meng(Walter)

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Introduction:

1. IDE: Visual Studio 2015

   Project Version control and project schedule (plan, time line): TFS

   Work-frame: ASP.NET Core 2.0

2. Office Automation Project: manage employee and workflow (template)

3. OS platforms: WIN10, linux (do not have MAC OS)

A. OASystem (ASP.NET MVC 4.5.2 Version) OA.Model (ASP.NET CORE MVC)

B. DataBase Scheme in file

4. Technologies in Web Application:

   a. Main Framework : **Asp.net Core MVC**
   b. Main language: **C#, HTML5, CSS, JS**
   c. **Application Framework in picture.**
   d. **Spring.NET** (.NET Core is not support)
   e. **easyUI JS** (For UI)
   f. **Serilog.Extensions.Logging** and **Srilog.Sink.RollingFile**(Login Global Exception into logging file) Log4net (Second choice)
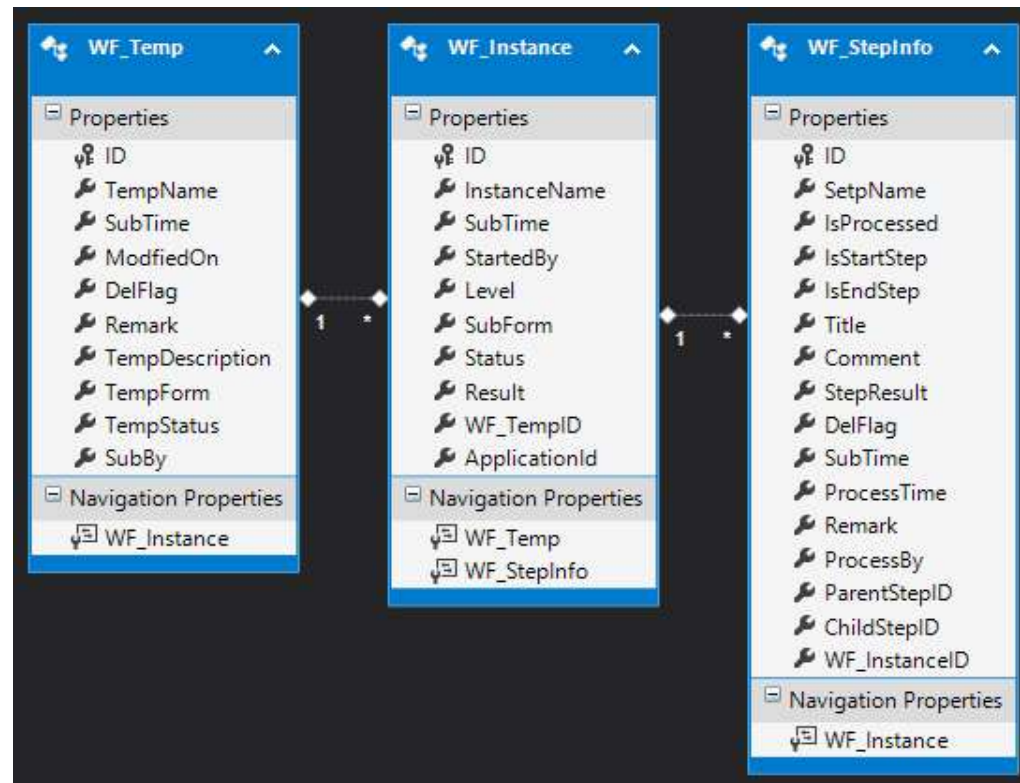   g. **Google reCaptcha** (For Captcha)
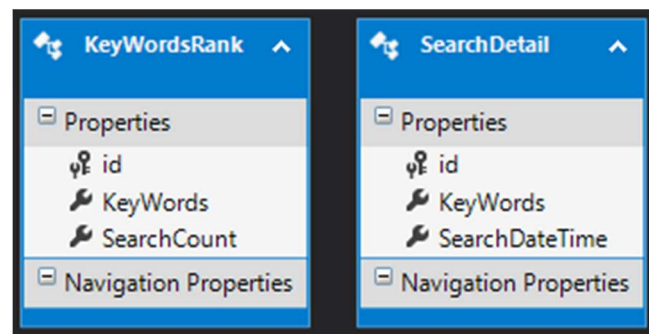   h. **GitHub** (Version control For Now)
   i. **Pivotal-Tracker** (For Schedule)
   j. Not support right now List: Nginx, WCF
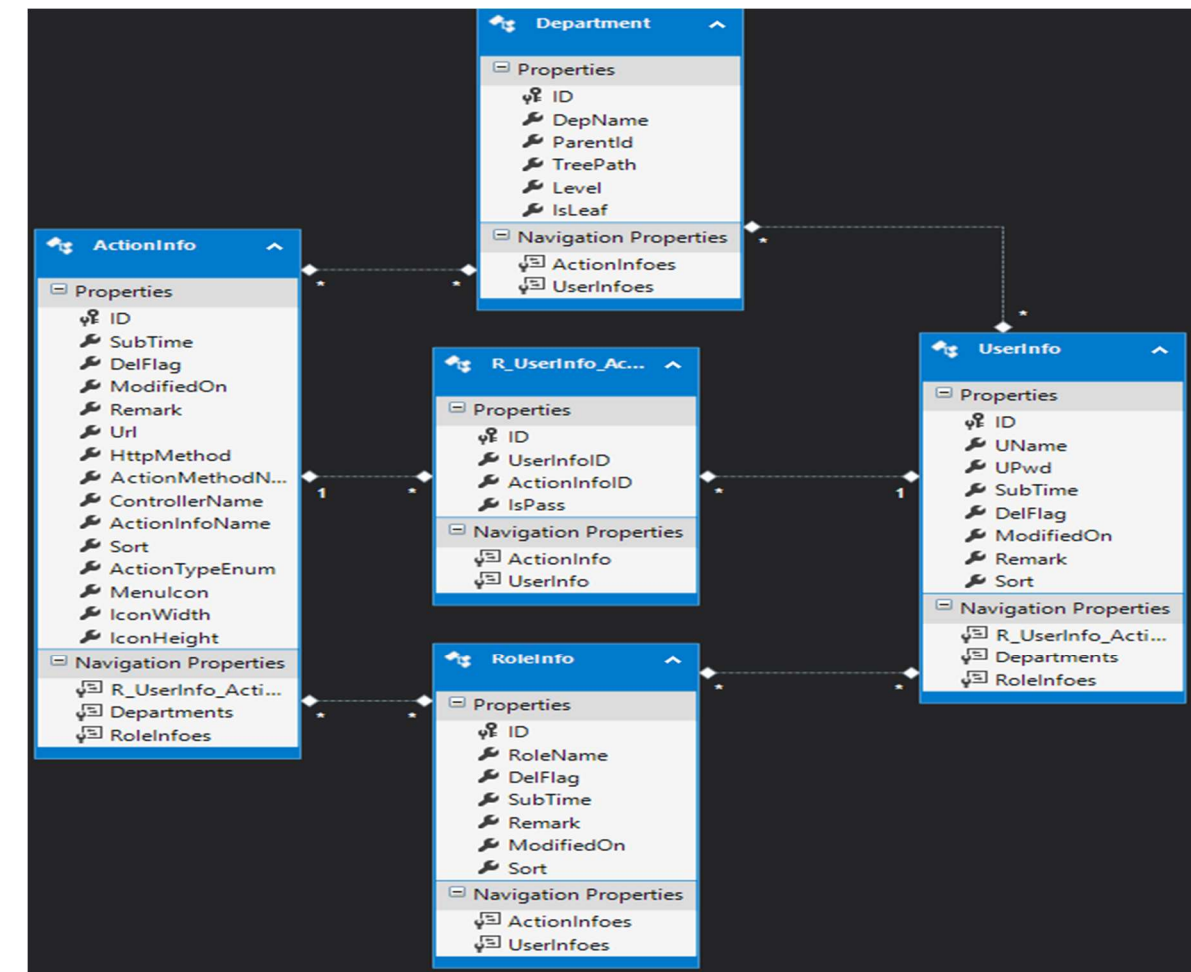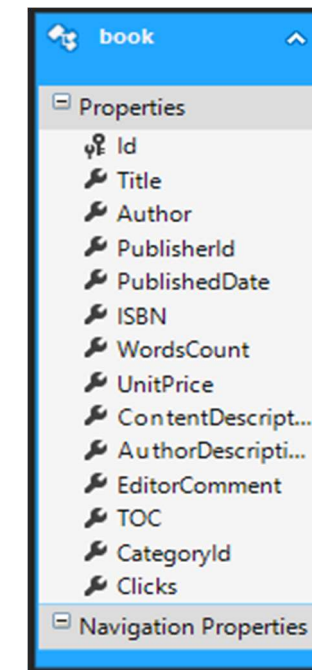
5. Database Design:

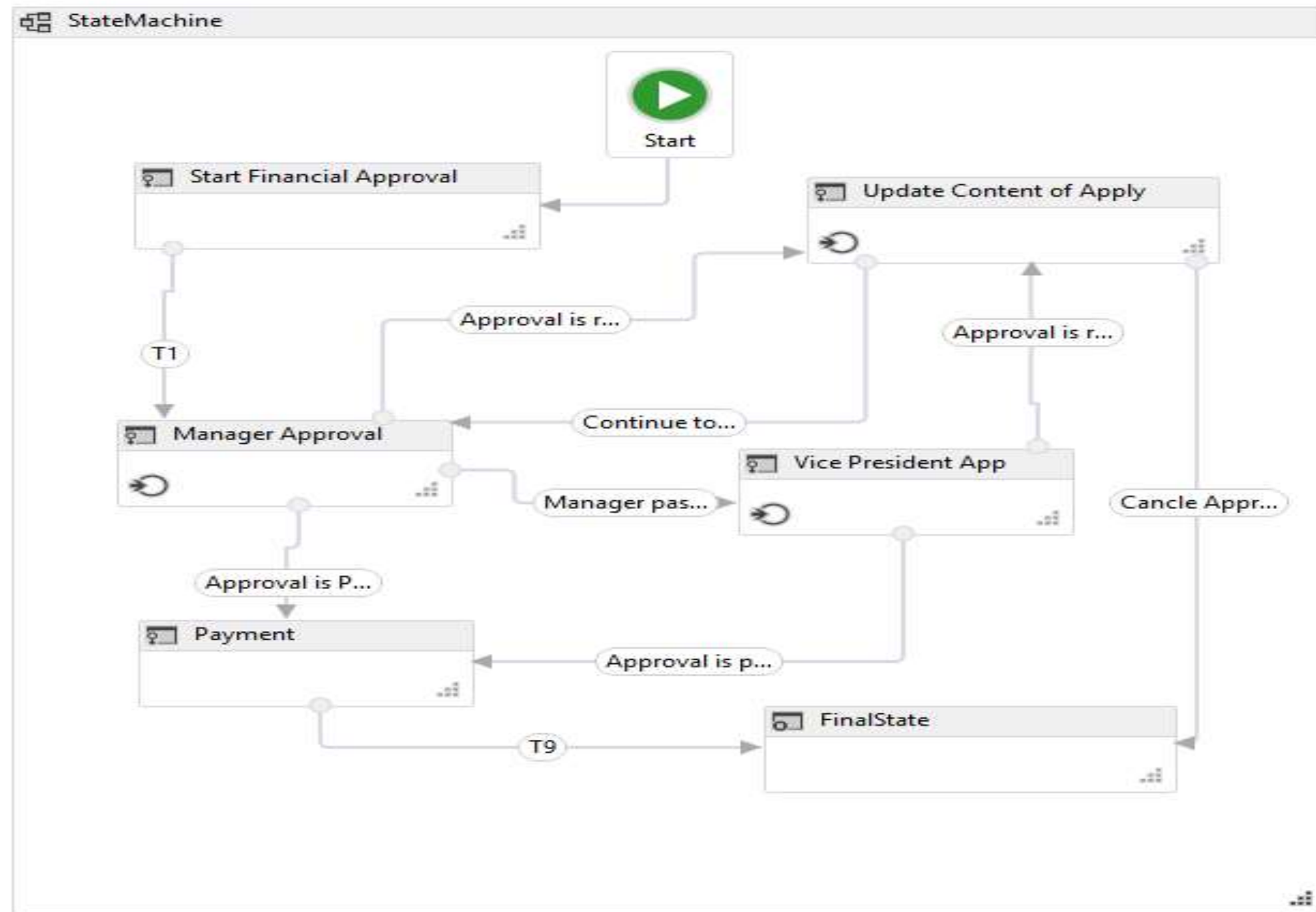

1-1 WorkFlow Table.

1-2 Site Search and Hot Word Table

1-3 Relationship with User, Role, and Permission.

1-4 Site Search (Using Book table

6. WorkFlow Dialog

Schedule (Time Line)

Event Name	Description	Completed Time	Status	Test Pass
Create Interface of **DAL**(Data access layout)	Interface for Data access layout (OA.IDAL)	2016-07-07	Completed	Pass
Create **DAL**	Data Access Layout (OA.DAL)	2016-07-07	Completed	Pass
Create Interface of **DBSession** layout	Interface for **DBSession** layout (Decoupling BLL And DAL) (OA.DalFactory)	2016-07-07	Completed	Don't need
Create **DBSession** layout	**DBSession** layout class (OA.IDAL)	2016-07-07	Completed	Don't need
Create abstract Factory class for **DBSession**	Singleton Pattern for DBcontext (OA.DalFactory)	2016-07-07	Completed	Don't need
Create **EF** with Model class with Sql Server 2016	Migration for EF	2016-07-07	Completed	Pass
Create Interface of **Service** (Business logic layout)	Interface for service (BLL) (OA.IService)	2016-07-07	Completed	Don't need
Create **Service**	Service (BLL) (OA.Service)	2016-07-07	Completed	Don't need
Create **Common library**	Common Functions.	2016-07-07	Completed	Don't need
Create UI layout (Asp.net Core MVC)	Asp.Net Core MVC for UI (OA.UI)	2016-07-07	Completed	Don't need
Finish **base Framework**	Check missing Parts.	2016-07-07	Completed	Pass
CRUD for **User information**	Create, Read, Update, Delete User Information	2016-07-08	Completed	Missing test
Multiple **search User Information**	Using name and remark to find user information.	2016-07-08	Completed	Missing test
Modify User view Layer	Make add, update, delete table to single page.	2016-07-11	Under Construction	Don't need
Logging System for **global exception**	Using Extensions and Sink.RollingFile to log exception message.	2016-07-11	Completed	Pass
Login Page for OA system	Layout of user Login page.	2016-07-11	Completed	Don't need
Add **Captcha** into Login Page	Using google reCaptcha.	2016-07-11	Completed	Pass
Add **Session**	Use Session to store user info for Login	2016-07-11	Completed	Pass
Add **filter** to controllers	Protect user enter URL into home page.	2016-07-11	Completed	Pass
Finish Login Page		2016-07-11	Completed	Don't need
Find Password	If user forgot their password.	2016-07-12	Mailkit did not work	
Back-end page layout	Home page and layout design	2016-07-12	Completed	Pass
Permission **database design**	Design database relationship (using Lucidchart)	2016-07-13	Completed	Pass
Create **Permission** class	ActionInfo, RoleInfo, ActionRoleInfo, UActionRoleInfo.	2016-07-13	Completed	Pass
Use **Memcache** in this project			Not support right now	
CRUD for **Role management**	Create, Read, Update, Delete Role Information	2016-07-14	Completed	Pass
Set Role for User	User will be set some role for them.	2016-07-14	Completed	Pass
CRUD for **Permission management**	Create, Read, Update, Delete Permission Information	2016-07-14	Completed	Pass
Set Permission for Roles	Role will be set some permission for them.	2016-07-15	Completed	Pass
Upload image for Menu Icon	User can customer their menu icon	2016-07-15	Completed	Pass
Update permission for role	Can set and clear permission for role.	2016-07-15	Completed	Pass

Task	Description	Date	Status	Result
Add permission for role	Can add more permission for one role.	2016-07-15	Completed	Pass
Learn Knockout(beginning)	Read some article.	2016-07-18	Completed	
Set permission for user	User can get special permission.	2016-07-18	Completed	Pass
Finish User, Role, Permission relationship	Two way user can get permission.	2016-07-18	Completed	Pass
Menu Permission (Filter)	Menu Permission Filter	2016-07-19	Completed	Pass
Permission (Filter)	Normal Permission Filter	2016-07-19	Completed	Pass
Learn Knockout(Part 2)	Do some Demo	2016-07-19	Completed	
Create **company's album** (picture)	Show some company picture (Using JS script to complete)	2016-07-20	Completed	Pass
Create Article page and database.	Create page layout and create article table.	2016-07-20	Completed	
Create ASP.NET MVC 4.5.2 Version (Part 1)	New project for OA System. (copy some code from ASP.NET CORE)	2016-07-21	Completed	Pass
Create ASP.NET MVC 4.5.2 Version (Part 2)	New project for OA System. (copy some code from ASP.NET CORE)	2016-07-22	Completed	Pass
Search article (ASP.NET MVC 4.5.2 Version)	Using Lucene.NET to search article (in Website)	2016-07-25	Completed	Pass
Create main Search page and design	Display search result	2016-07-25	Under Construction	
Statistics hot words	Which article that most people to search	2016-07-26	Completed	Pass
Distributed Storage(Picture, log file)		2016-07-26	Completed	
Learn **ReactJs**(beginning) and Knockout		2016-07-26	Completed	Pass
Use **Lucene.Net** in ASP.NET MVC 4.5.2 Version	Using Lucene.Net to complete site search.	2016-07-27	Completed	Pass
Use **Memcache** in ASP.NET MVC 4.5.2 Version	Using Memcache to simulate Session.	2016-07-27	Completed	Pass
Use **Redis** in ASP.NET MVC 4.5.2 Version	Using redis to record log file and make a backup log file.	2016-07-27	Completed	Pass
Use **quartz** in ASP.NET MVC 4.5.2 Version	Using quartz to update (Statistics hot words) every one hour.	2016-07-27	Completed	Pass
Create **new Captcha**	Replace reCaptcha to normal Captcha.	2016-07-27	Completed	Pass
Use **Spring.NET** in ASP.NET MVC 4.5.2 Version	Using Spring.NET to Decouple View layer and Controller layer.			
Design **Workflow**	Let user can make appointment or Approval to manager or Vice President.	2016-07-28	Completed	Pass
Finish **Workflow**	Let user can make appointment or Approval to manager or Vice President.	2016-07-29	Under Construction	
All most parts finish	Start to fix project bug.	2016-08-02	Under Construction	
Learn ASP.NET MVC with Bootstrap and knockoutJS		2016-08-02		
Read some Article to study more Bootstrap		2016-08-02		

Test Plan