1. **Preliminary architecture**

1.1 Pages list:

* Projects

Provided functionality:

*View, create, modify and delete projects. Specify title, start and estimated finish dates, comments. Assigning project members and project administrator. Warning: project deletion will cause deletion of all SCRUM notes, associated with it. View, create, modify and delete scheduling statuses. Specify allias, type, days of week, month, scheduled time and comments*

Components:

*Projects list (Sort & filter table), “create project”, “delete” and “modify” buttons.*

*Create new/Modify form contains textboxes, listboxes, textarea, appropriating provided functionality, table with user list for setting their roles for the project, Table with scheduling statuses for this project and “create new scheduling status button”. New scheduling status form contains textboxes, listboxes, textarea, appropriating provided functionality.*

* Statuses:

Provided functionality:

*View, create, modify and delete user statuses. Specify* ***Type*** *(can be* **Daily** (args: today/tomorrow - today, yesterday) , **Weekly** (args: this week/next week - this week, last week), **Monthly** (args: this month/next month - this month/last month*), period1, period2, blockers. A user with “project member” role in a project can create, delete and modify only his own statuses. A user with a “project administrator” role can create, delete and modify everybody’s statuses. View users, who didn’t provide their daily status.*

Components:

*Statuses list (Sort & filter table), “create status”, “delete” ,“modify” and “Show users without daily status” buttons.*

*Create new/Modify form contains a “project” (shows only project where user is assigned as “project member” or “project administrator”) and “template” (shows only templates which are assigned to selected project) listboxes, submit button.*

* Users

Provided functionality:

*View, create, modify and delete users. Specify Allias, ActiveDirectory user name, email, comments, ” SCRUM Combiner administrator” global role and roles in projects. A user with a “project administrator” only assign user to one of his own projects. “SCRUM Combiner administrator” can perform all possible actions on the whole site. Warning: user deletion will cause deletion of all statuses, which are associated with it. Other users cannot do whis.*

* Components:

*Users list (Unsorted/Unfiltered table), “create user”, “delete”, and “modify” buttons.*

*Create new/Modify form contains textboxes, listboxes, textareas appropriating provided functionality and a table with projects for assigning user’s roles there.*

* SCRUM templates

Provided functionality:

*View, create, modify and delete SCRUM templates in HTML. Specify Scheduling name, template name and template’s html markup. A user with “project administrator” can create, delete and modify only those SCRUM templates, which are associated with one of his projects. Other users cannot do this.*

Components:

*SCRUM templates list (Sort & filter table), “create template”, “delete” and “modify” buttons.*

*Create new/Modify form contains textboxes, listboxes, textareas appropriating provided functionality, CLEditor WYSIWYG editor which specifies template HTML markup and submit button. HTML template ia WYSIWYG editor will contain UBB-like tags to specify where to markup user statuses attributes. DOTO: invent these tags and add buttons to add them into WYSIWYG editor (modify CLEditor source code).*

* Notifications

Provided functionality:

*Setting email list for notification, setting time for automatic all today status sending, manual selected status notification sending.*

Components list:

*textboxes, checkboxes, listboxes, textareas appropriating provided functionality, submit button.*

* Settings (starts as a home page at the first start or database connection error)

Provided functionality:

*Setting the database connection parameters: server name, database name (if exists),. Creating a blank database with default user with name “Administrator”, account name the same is logged in user’s active directory username.*

Components list:

Textboxes and checkboxes *appropriating provided functionality,* submit button

**1.2 Database structure**

***TODO: Create a database structure.***

1. **Technologies:**

* *ASP .NET MVC 4 for site engine*

*Models, controllers, views and classes, razor syntax, Linq to SQL framework (calls for stored procedures),*

*Authorization (user identity)*

* *MS SQL Server as a database engine and mailing service*

*Connected tables, stored procedures, SQL Mail, SQL Scheduler jobs*

* *HTML, css for pages markup*
* *Java script, jquery for dynamic user interface elements*

*Sorted and filtered tables (jquery), CLEditor WYSIWYG editor (jquery)*

* *GitHub as a repository*