**ProjectDevs Technical Specification**

**Architecture:** N-Layered Onion Architecture

**Projects in the Solution:**

1. **ProjectDevs.Core -**  .Net 4.6.1 Class Library Project -> will be having core models, enums, interfaces, structs, constants. Would be referenced in all the projects in the Solution. No Project Dependencies.
2. **ProjectDevs.DataAccess -** .Net 4.6.1 Class Library Project -> will be having complete data access logic using Dapper. Would be referenced in Business & Api Projects. Project Dependencies – ProjectDevs.Core
3. **ProjectDevs.Business** - .Net 4.6.1 Class Library Project -> will be having business Logic, utilities, extensions, caching(if required) etc. Project Dependencies – ProjectDevs.Core & ProjectDevs.DataAccess
4. **ProjectDevs.Api** - .Net 4.6.1 Asp.Net MVC Web API 2 Project -> will be having all the REST endpoints. Project Dependencies – ProjectDevs.Core, ProjectDevs.DataAccess & ProjectDevs.Business
5. **ProjectDevs.Api.Tests** – .Net 4.6.1 Unit Test Project for Api Project ProjectDevs.Api
6. **ProjectDevs.Web** - .Net 4.6.1 Asp.Net MVC 5 Poject -> will be used for serving front-end. For UI – HTML5, CSS3, Bootstrap, Javascript & jQuery will be used.

**Third Party Open Source Tools/Libraries:**

1. **Dapper 2.0.35 –** for data access ORM
2. **Unity 5.11 -**  Dependency Injection
3. **Bootstrap 3.3.7 –** UI Framework
4. **FontAwesome 4.7.0 –** UI Icons Library
5. **jQuery & jQueryUI 3.3.1 –** UI & UX Javascript Library
6. **Moq 4.14.1 –** Mocking Framework for Unit Testing C# Code
7. <https://github.com/select2/select2/tree/master>
8. <https://github.com/select2/select2-bootstrap-theme>
9. **I will update this document (if any other tool/library will be added)**

**Pages:**

1. Projects List
2. Create new Project – Modal Popup
3. Project Details Page
4. Edit Project – Modal Popup
5. User Stories List
6. Create new User Story – Modal Popup
7. User Story Detail Page
8. Project Role Assignment Page
9. Project Story Tasks List
10. Create new Task – Modal Popup
11. Task Detail Page
12. Edit Task – Modal popup
13. Sprints List
14. Create new Sprint – Modal Popup
15. Project Meetings List
16. Create Project Meetings – Modal Popup
17. Project Files List
18. Add/Upload Project File – Modal Popup
19. Project Notes List
20. Add/Create Project Note