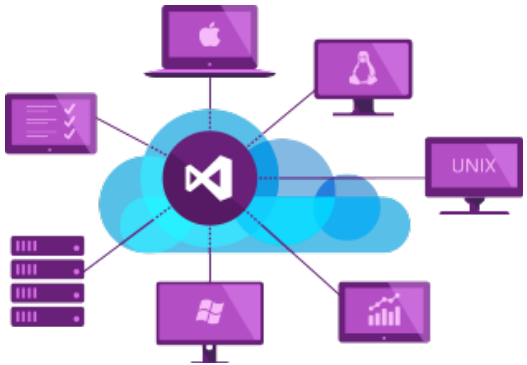
Visual Studio Team Services

Getting Started

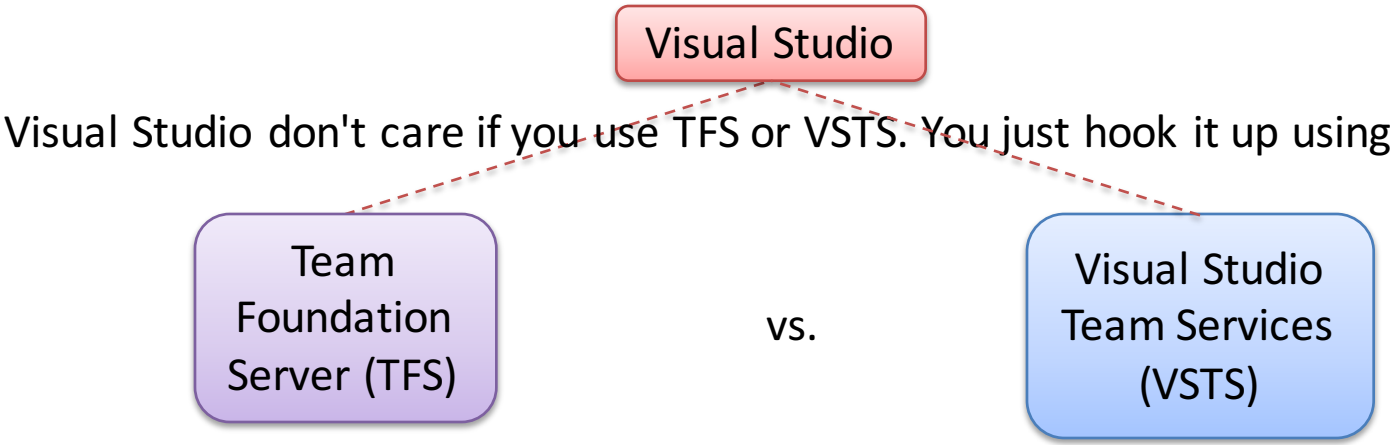


Hans-Petter Halvorsen, M.Sc.

Visual Studio Team Services

- Visual Studio Team Services is a platform taking care of all aspects of the process of developing software (the software development lifecycle)
- You can share Documents and Code with your Team, report Bugs, etc.

Team Foundation Server (TFS) vs. Visual Studio Team Services (VSTS)



"Team Foundation Server" (TFS). This is software you can install on a server in your own network. You and your team can then hook up Visual Studio to that server and use TFS. You have to buy the software, buy licenses for users and use your own server.

"Visual Studio Team Services" (VSTS) is an online version of TFS – hosted by Microsoft. You don't need to install anything. You need to pay a monthly fee (until 5 users is for free).
VSTS is available from http://www.visualstudio.com

https://en.wikipedia.org/wiki/Team_Foundation_Server

What is TFS/VSTS?

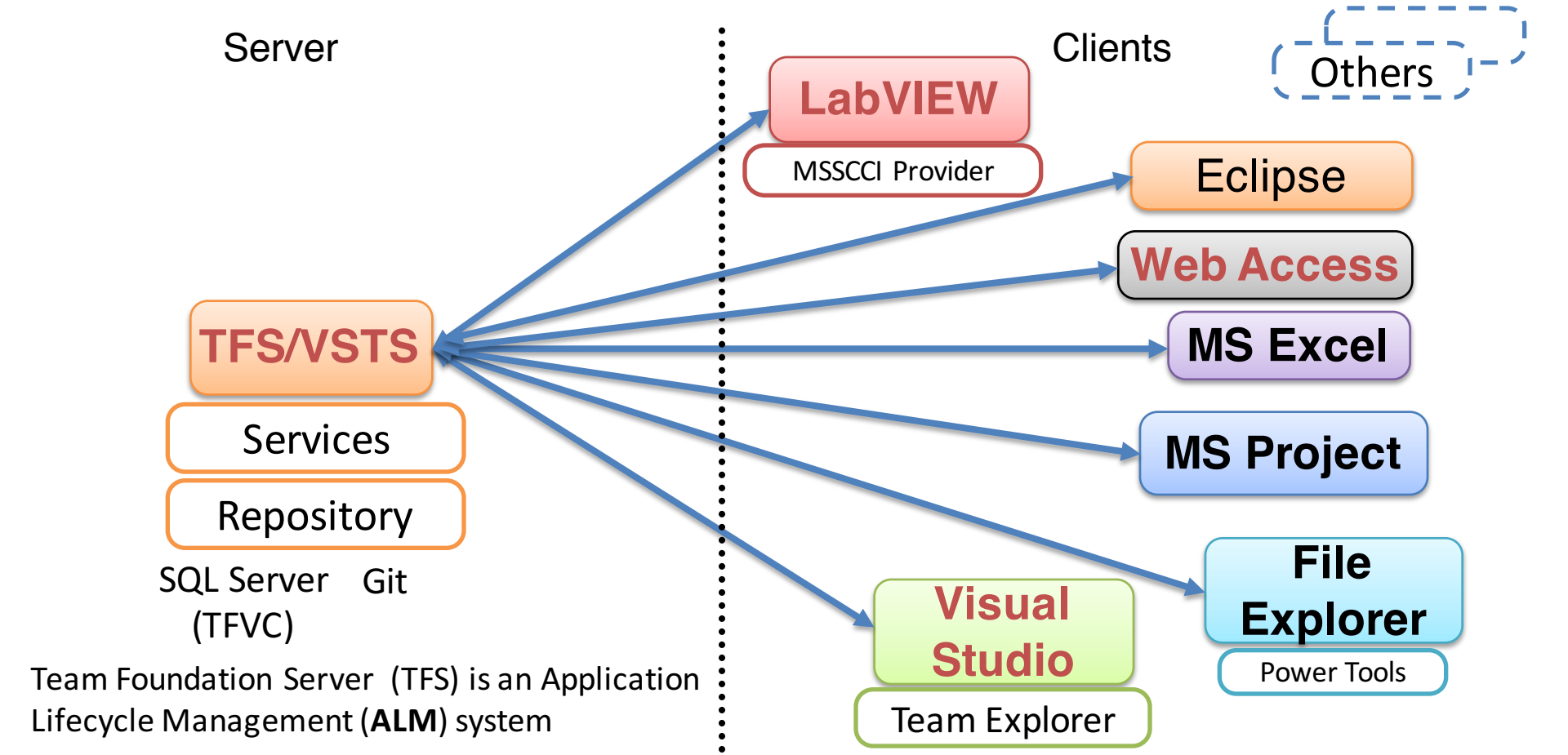
- Team Foundation Server (TFS)/Visual Studio Team Services (VSTS) is an Application Lifecycle Management (**ALM**) system,
  - i.e., the system takes care of all aspects in software development
  - from planning, requirements, coding, testing, deployment and maintenance.
- TFS/VSTS is a Source Code Control (**SCC**), Bug Tracking, Project Management, and Team Collaboration platform
- Tightly integrated with **Visual Studio** as Microsoft is the vendor of both Visual Studio and TFS/VSTS
- Cloud based edition (Hosting Service): “Visual Studio Team Services” (former: “Visual Studio Online” and “Team Foundation Service”)

Visual Studio Team Services (VSTS)

- Formerly known as Visual Studio Online (VSO)
- VSTS is a Source Code Control (SCC), Bug Tracking, Project Management, and Team Collaboration platform
- Integrated with Visual Studio
- TFS in the Cloud (This means you don't need to host the server yourself)
- Free for up to 5 users

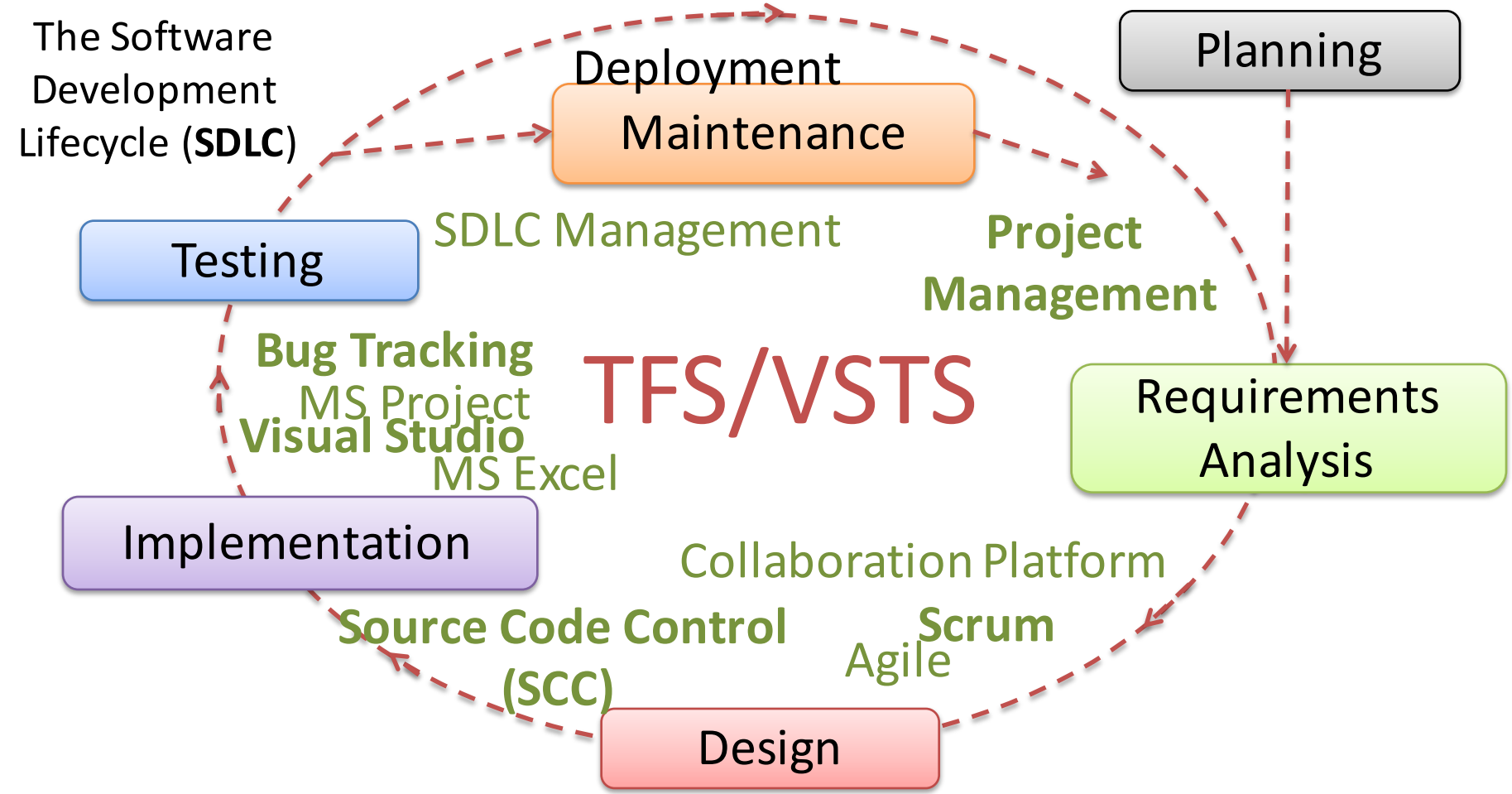
www.visualstudio.com

TFS/VSTS



Team Foundation Server (TFS) is an Application Lifecycle Management (**ALM**) system

TFS/VSTS is an Application Lifecycle Management (**ALM**) System



Visual Studio Team Services

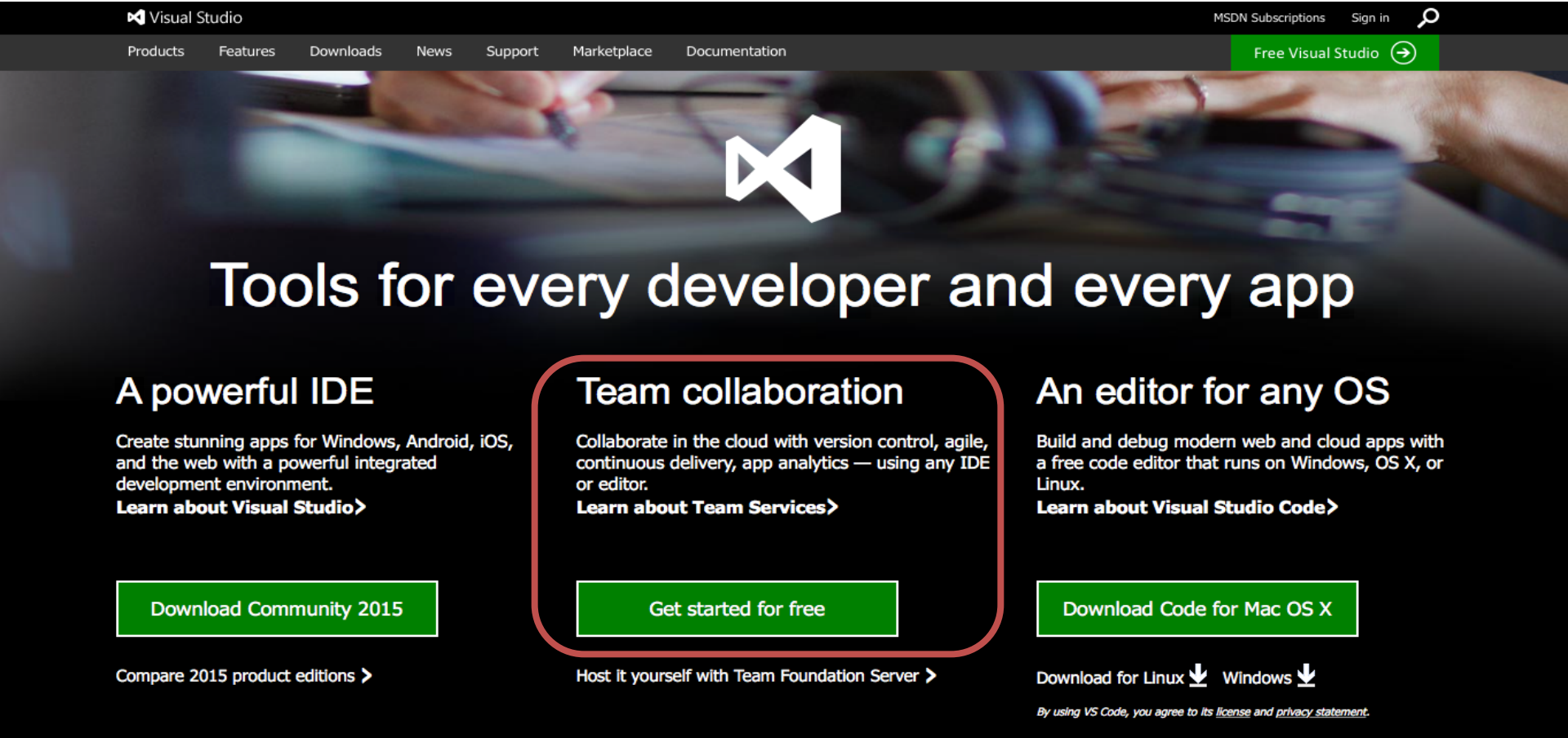
www.visualstudio.com

Visual Studio Team Services

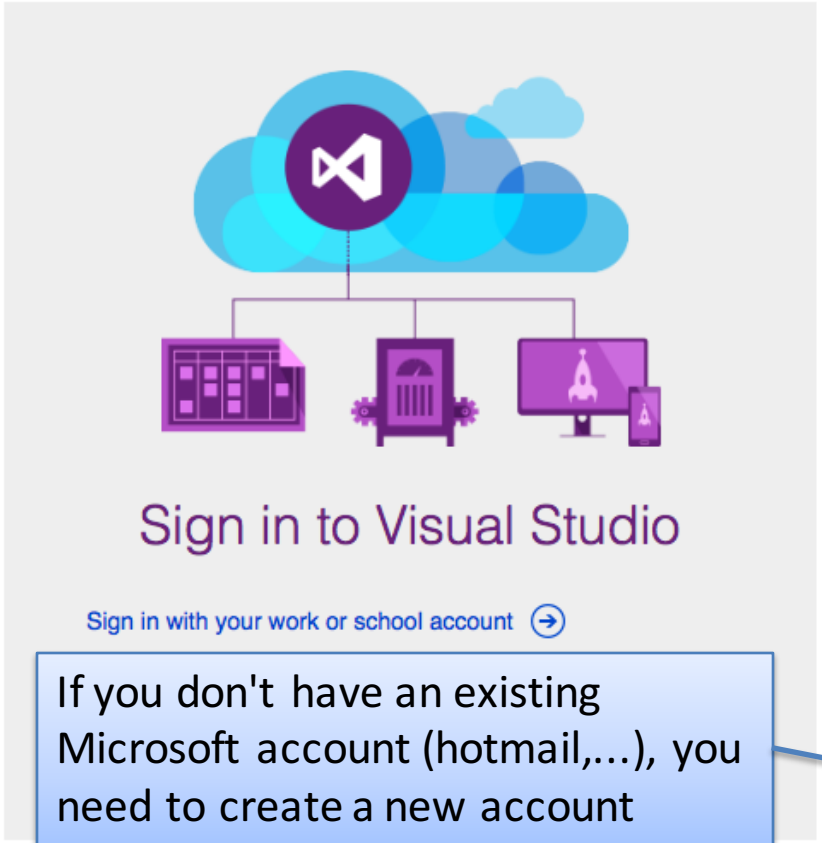
Cloud collaboration tools for teams

It's not an IDE, it's everything else. Visual Studio Team Services provides a set of cloud-powered collaboration tools that work with your existing IDE or editor, so your team can work effectively on software projects of all shapes and sizes.

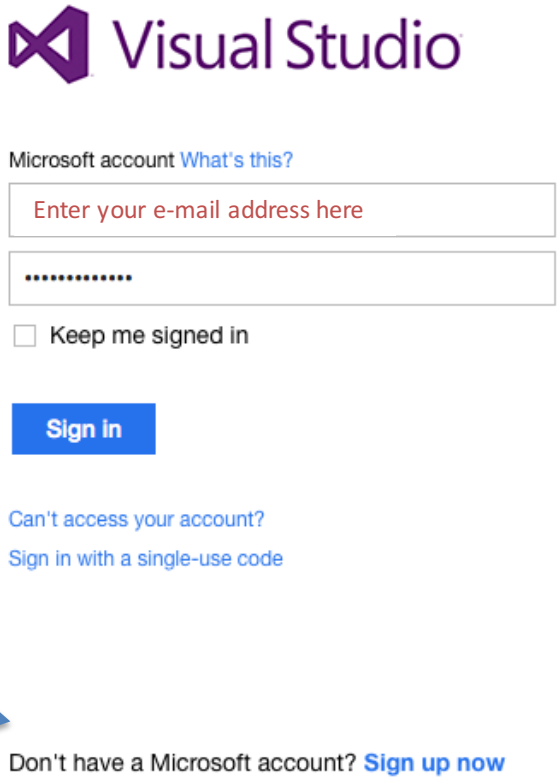
Getting Started



Sign in with your existing Microsoft Account



If you don't have an existing Microsoft account (hotmail,...), you need to create a new account



VSTS Account

Create a Visual Studio Team Services Account

Full name *

Contact e-mail *

Country/Region *

Please select

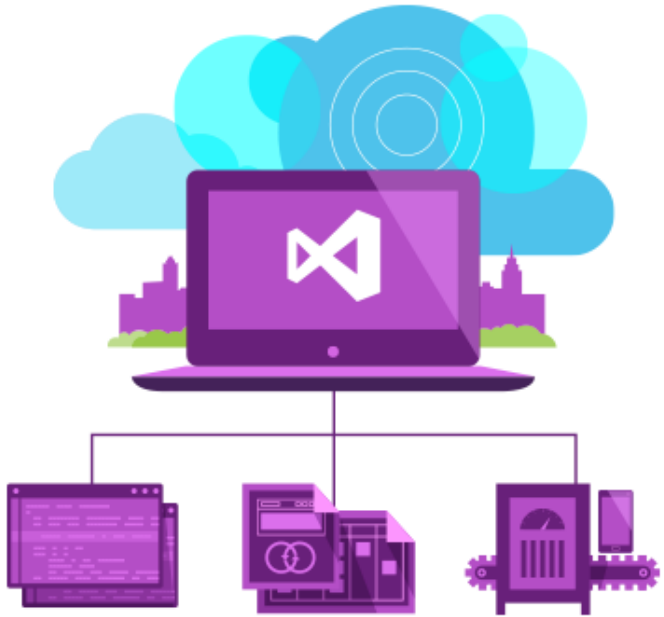
Account URL *

https:// .visualstudio.com

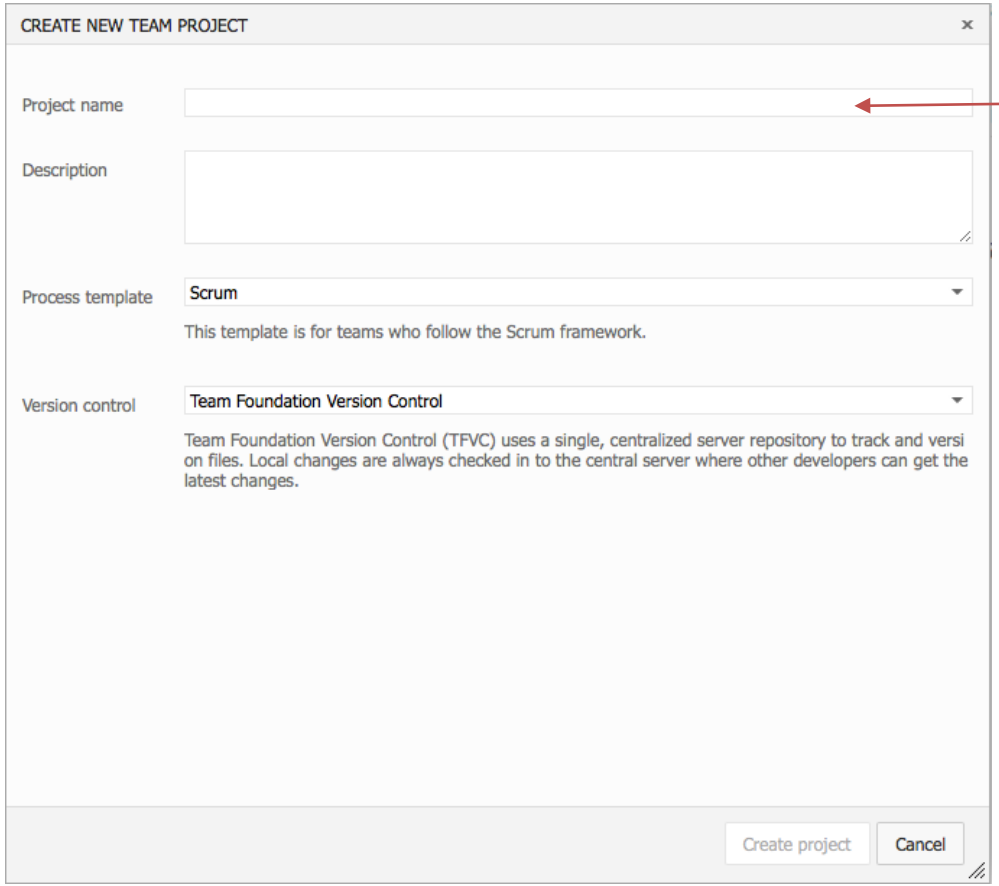
Your account will be hosted in the **South Central US** region.

Change options

Create Account



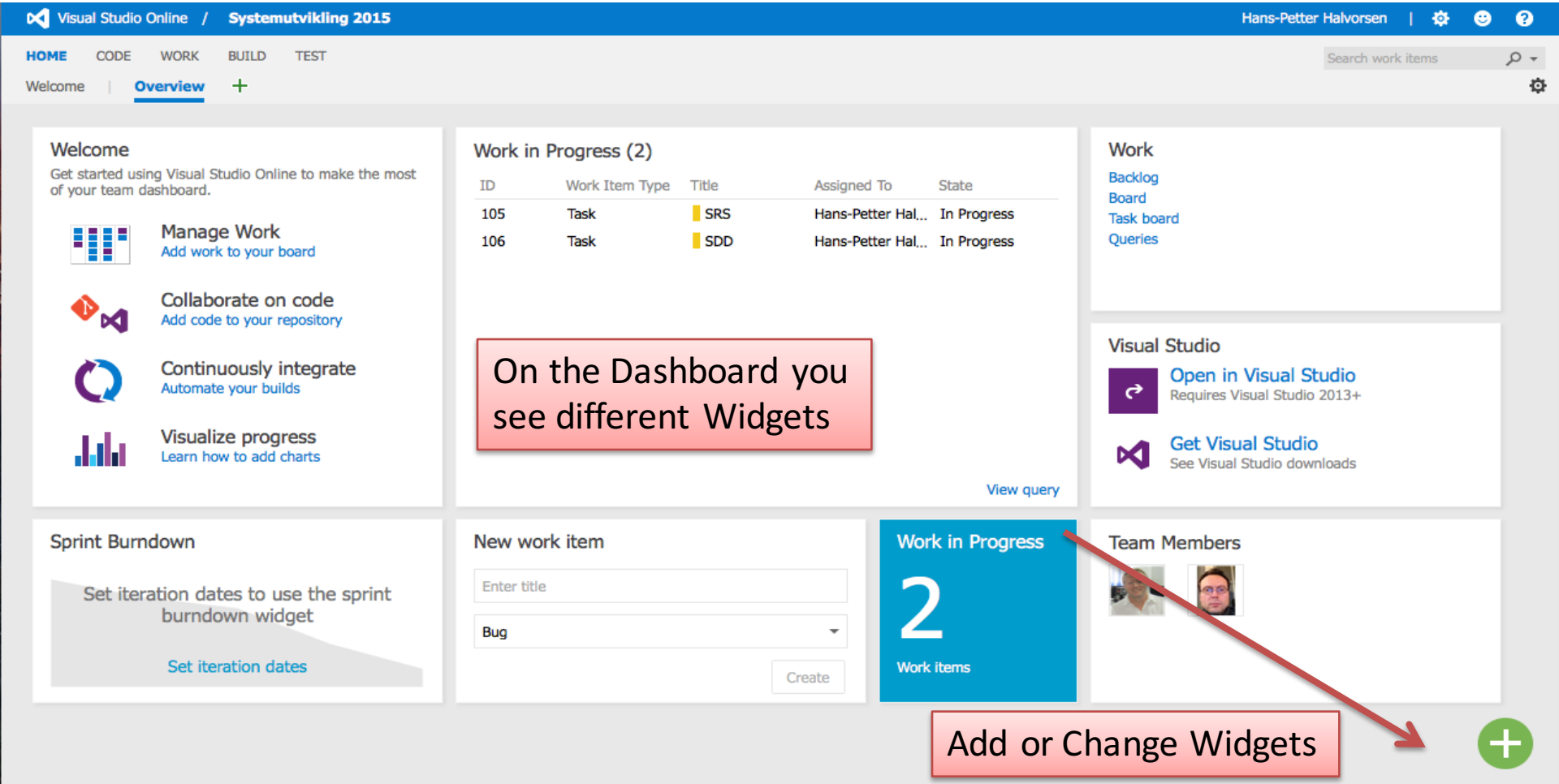
Create your First Project



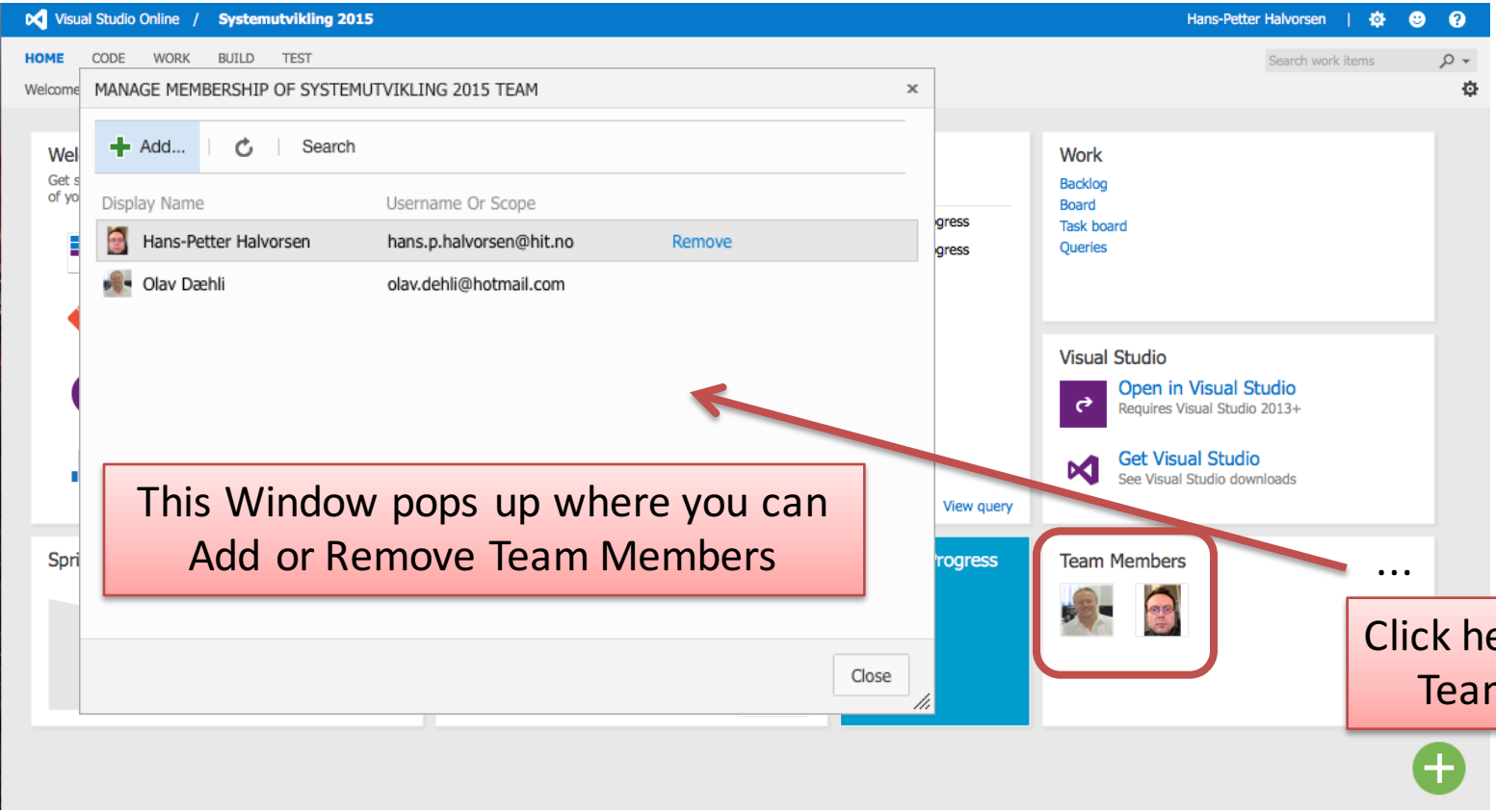
Enter the Name of your Project here

Select these options

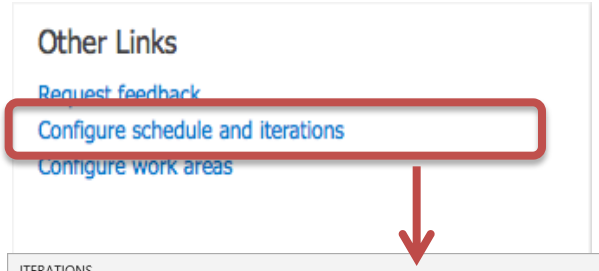
Project Start Page (Dashboard)



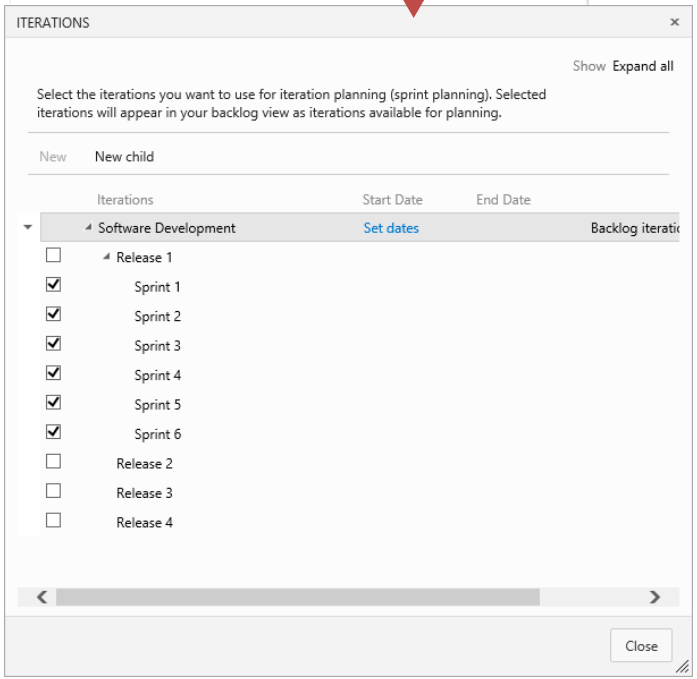
Add Project Members

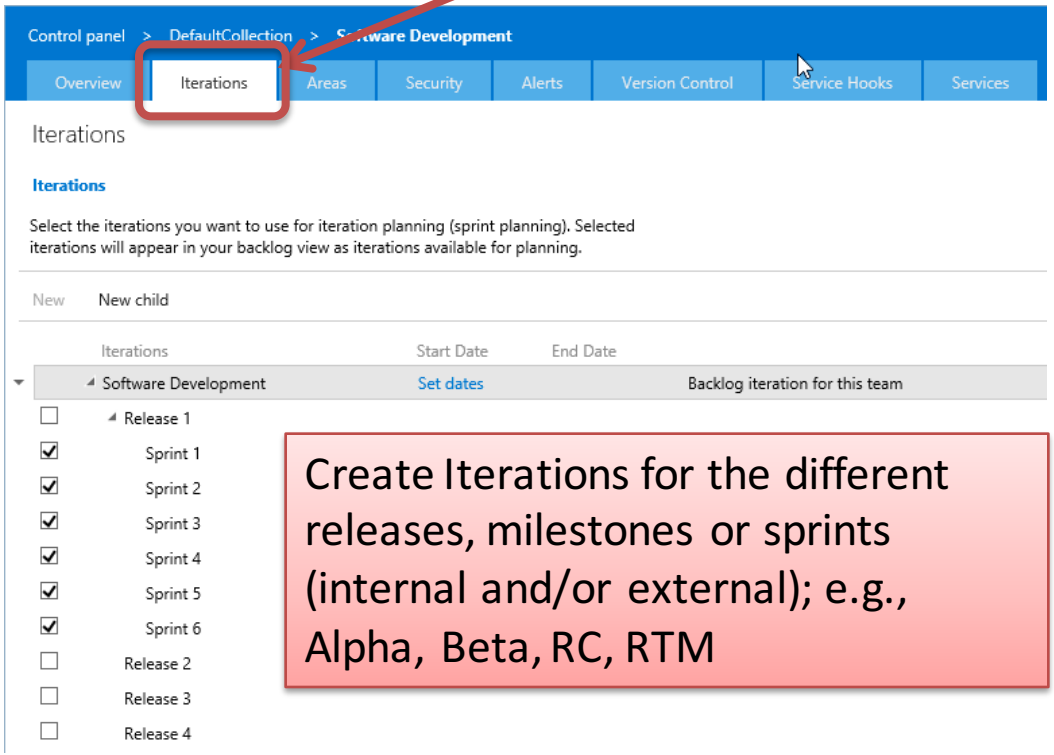


Other Links Widget on the Dashboard



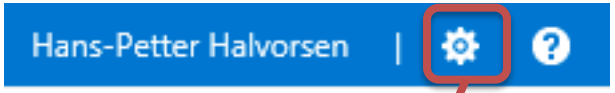
Iterations

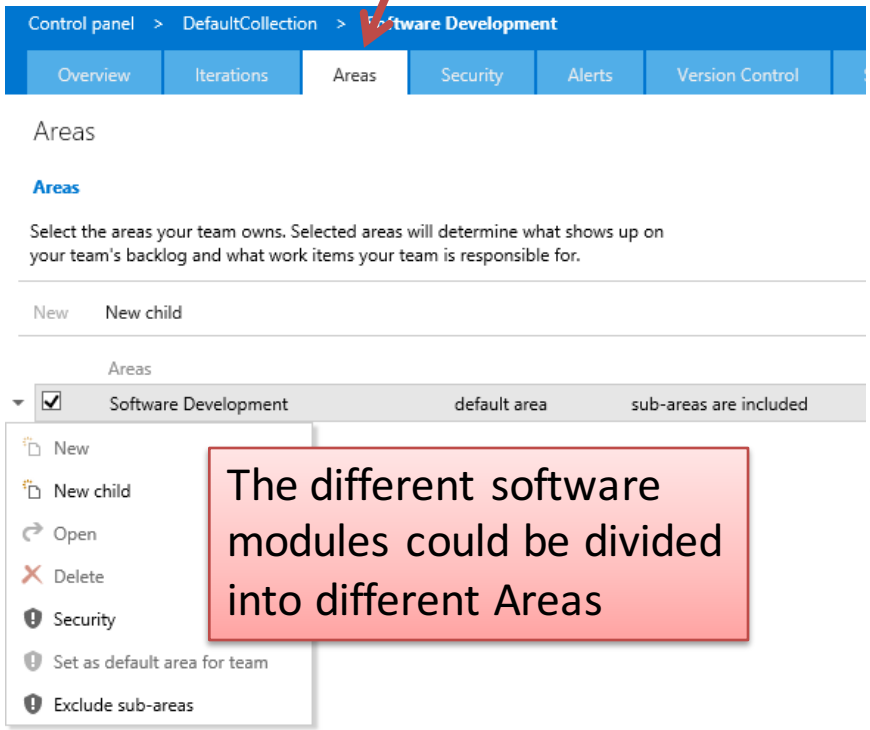




Create Iterations for the different releases, milestones or sprints (internal and/or external); e.g., Alpha, Beta, RC, RTM

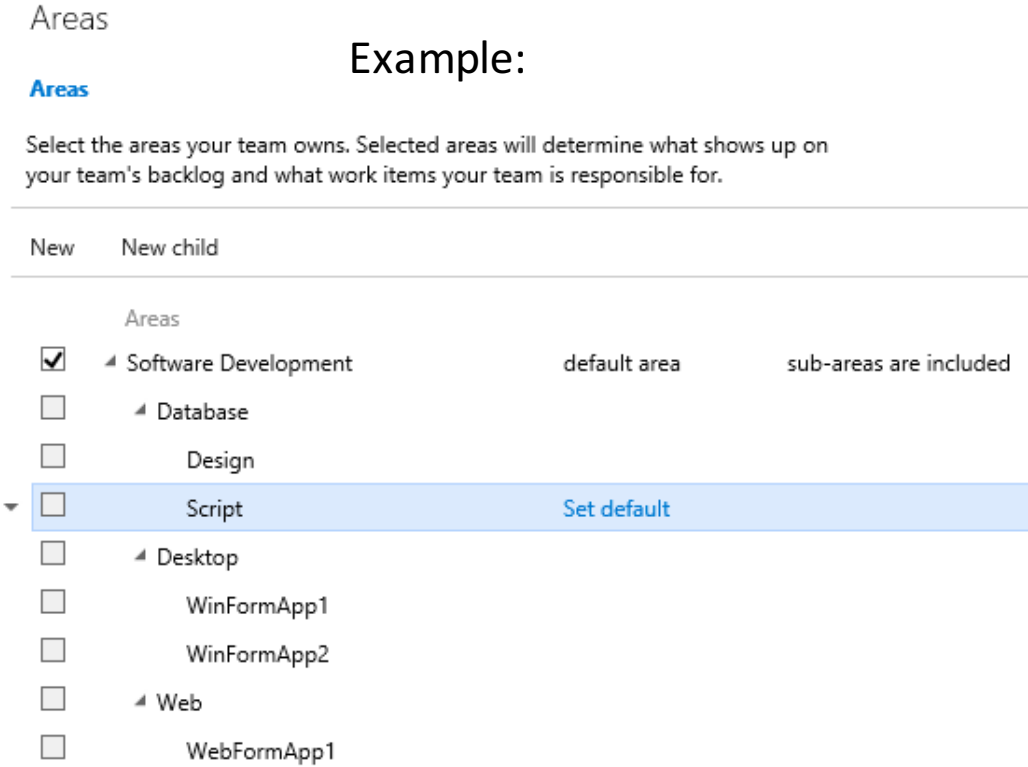
Areas





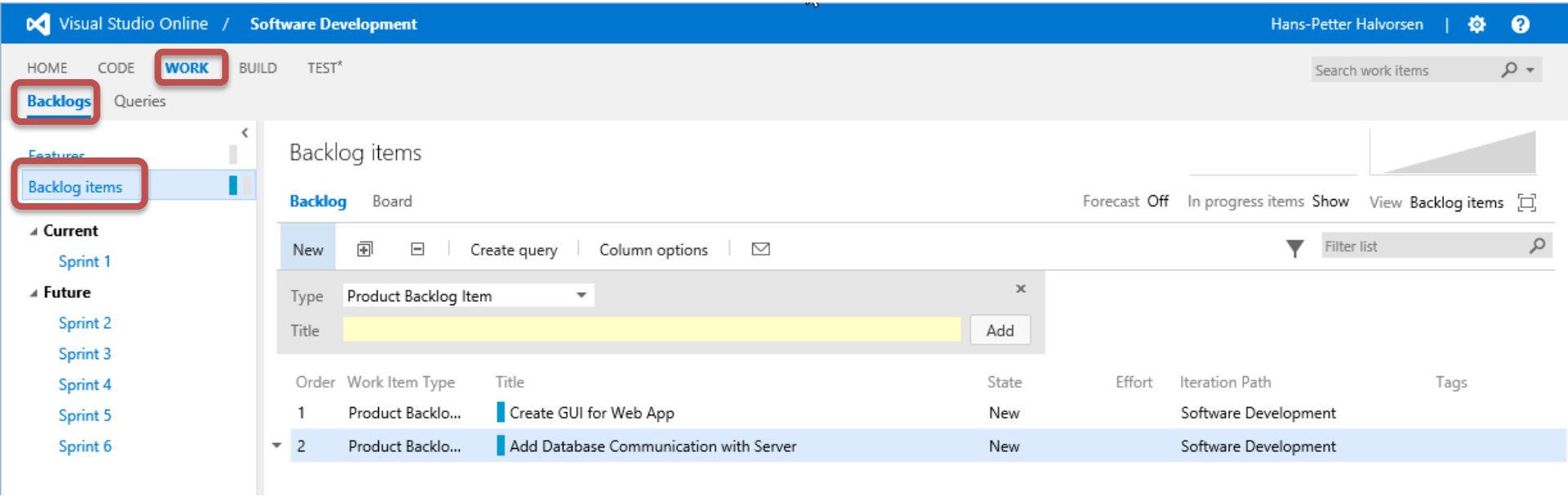
The different software modules could be divided into different Areas

Example:

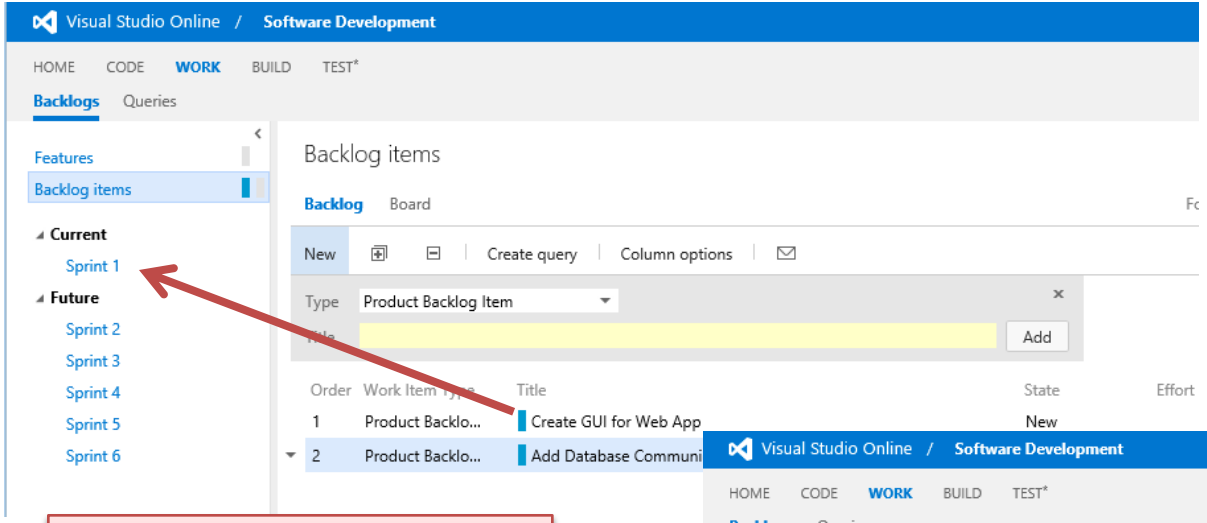


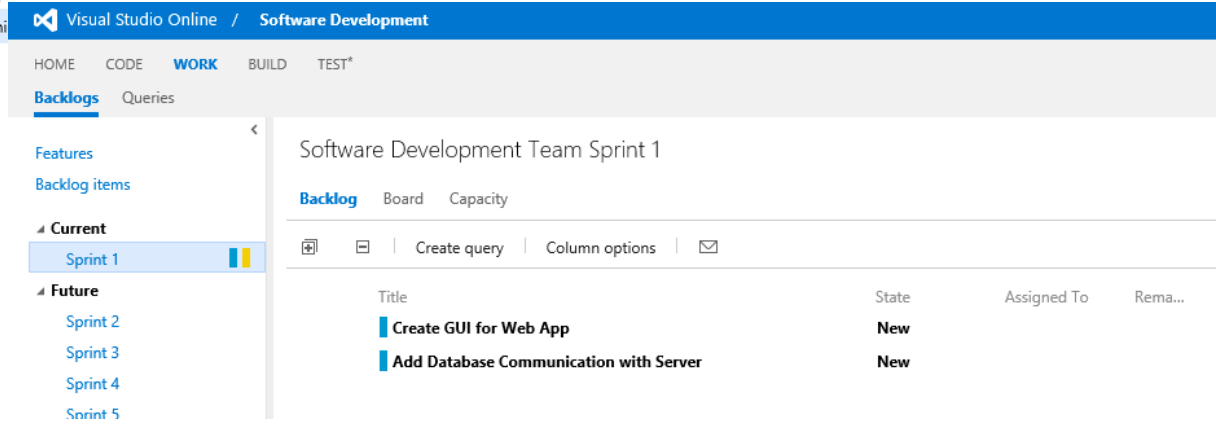
The Product Backlog

All the Work that should be done in the Project



The Sprint Backlog





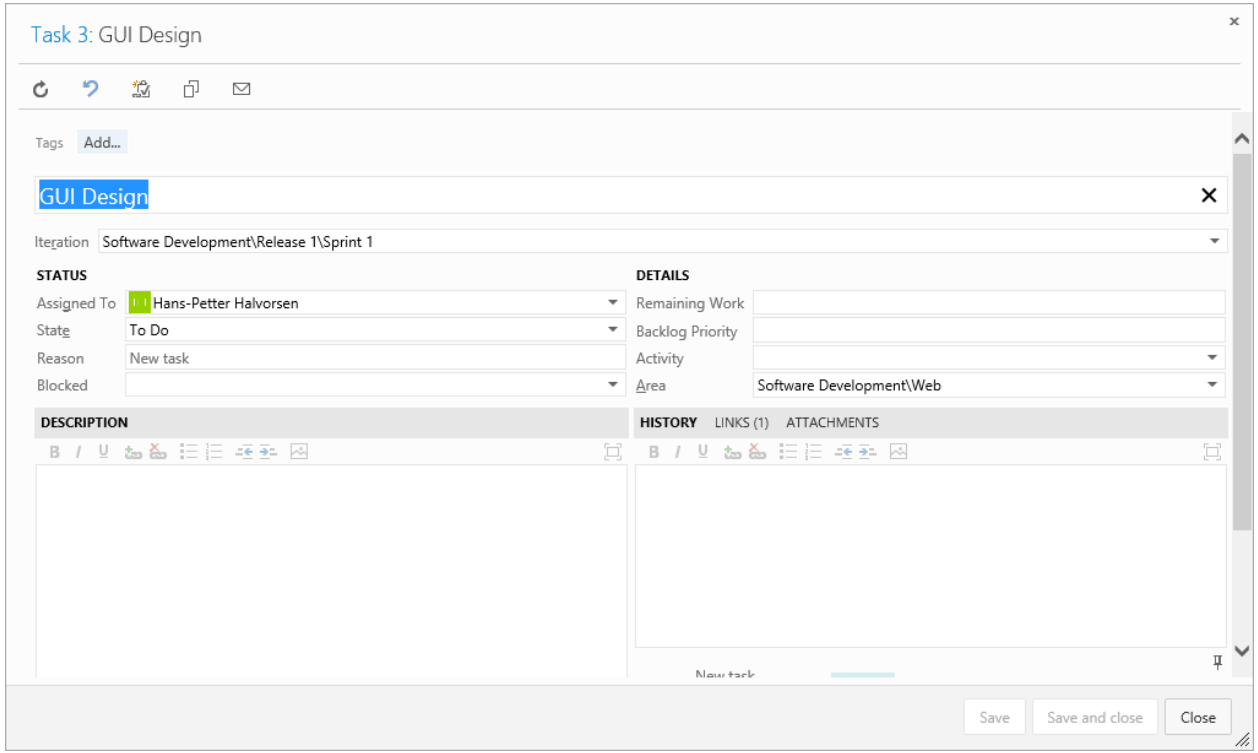
Just Drag Items from the Product Backlog to the Sprint Backlog

All the Work that should be done in the Next Sprint (Iteration)

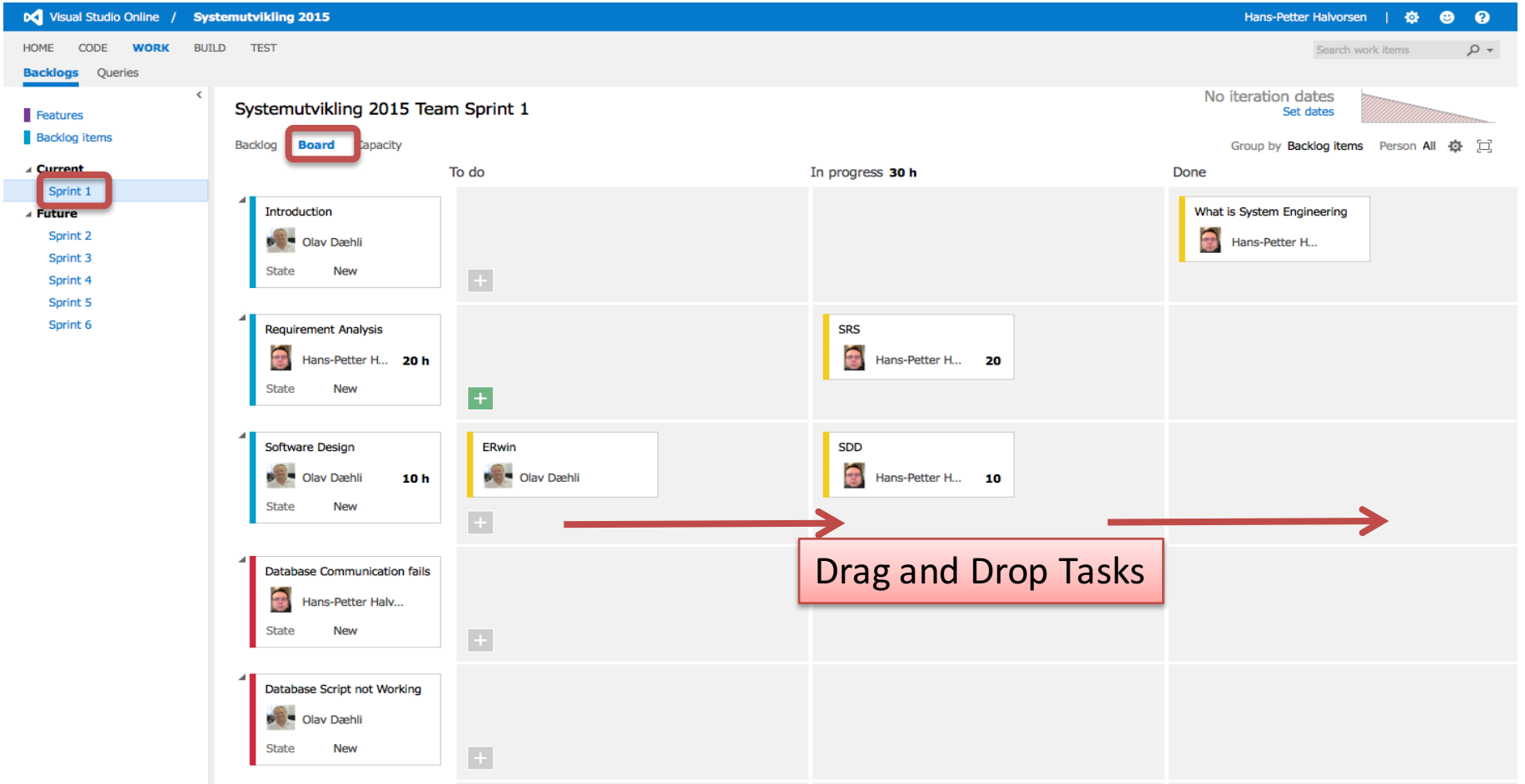
Create Tasks

Title

- Create GUI for Web App
  - GUI Design
- Add Database Communication with Server



Task Board


Visual Studio Online / Systemutvikling 2015
Hans-Petter Halvorsen
HOME CODE WORK BUILD TEST
Search work items
Backlogs Queries
Features
Backlog items
Current
Sprint 1
Future
Sprint 2
Sprint 3
Sprint 4
Sprint 5
Sprint 6
Systemutvikling 2015 Team Sprint 1
No iteration dates
Set dates
Backlog Board Capacity
Group by Backlog items Person All
To do
In progress 30 h
Done
Introduction
Olav Dæhli
State New
What is System Engineering
Hans-Petter H...
Requirement Analysis
Hans-Petter H... 20 h
State New
SRS
Hans-Petter H... 20
Software Design
Olav Dæhli 10 h
State New
ERwin
Olav Dæhli
SDD
Hans-Petter H... 10
Database Communication fails
Hans-Petter Halv...
State New
Database Script not Working
Olav Dæhli
State New
Drag and Drop Tasks

Visual Studio

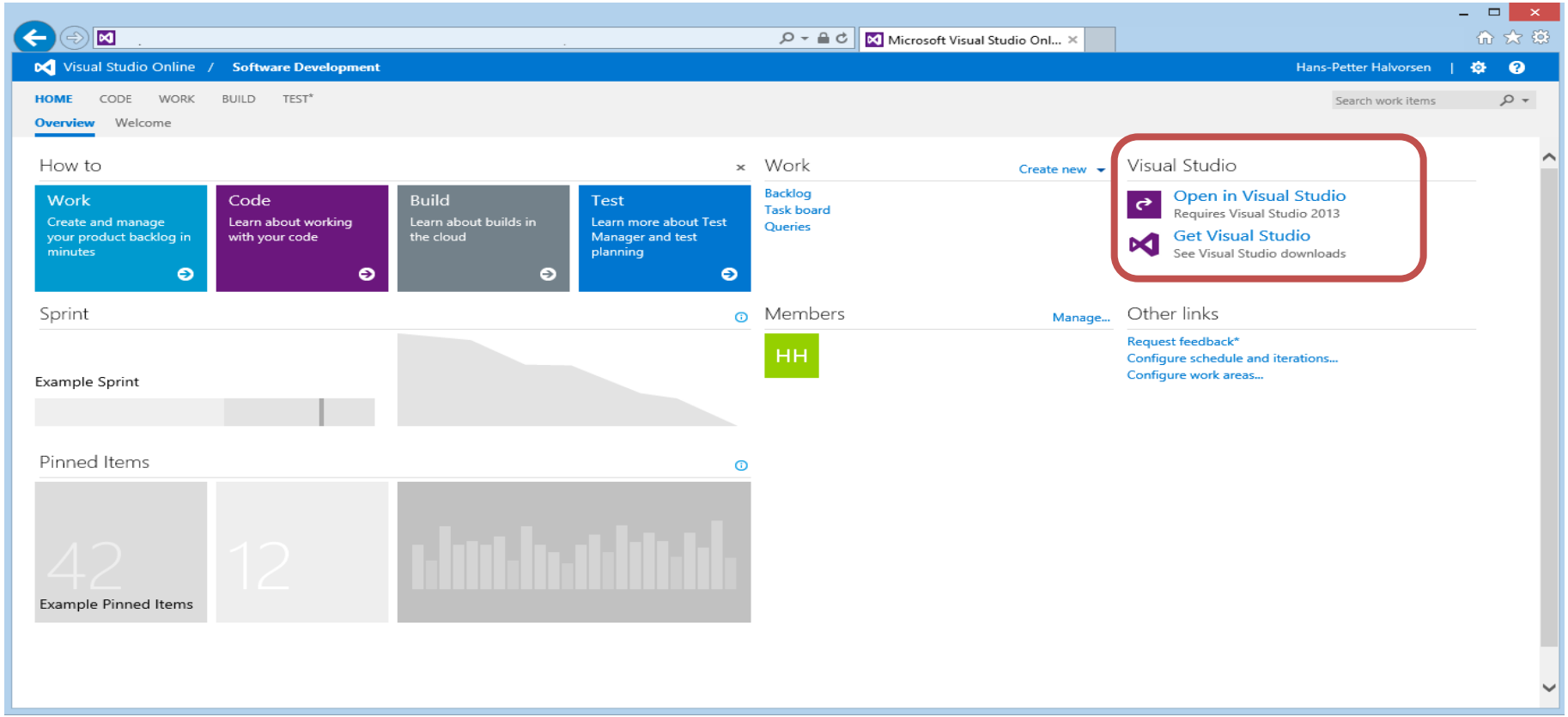
How-To use TFS/VSTS Features inside Visual Studio

Hans-Petter Halvorsen, M.Sc.

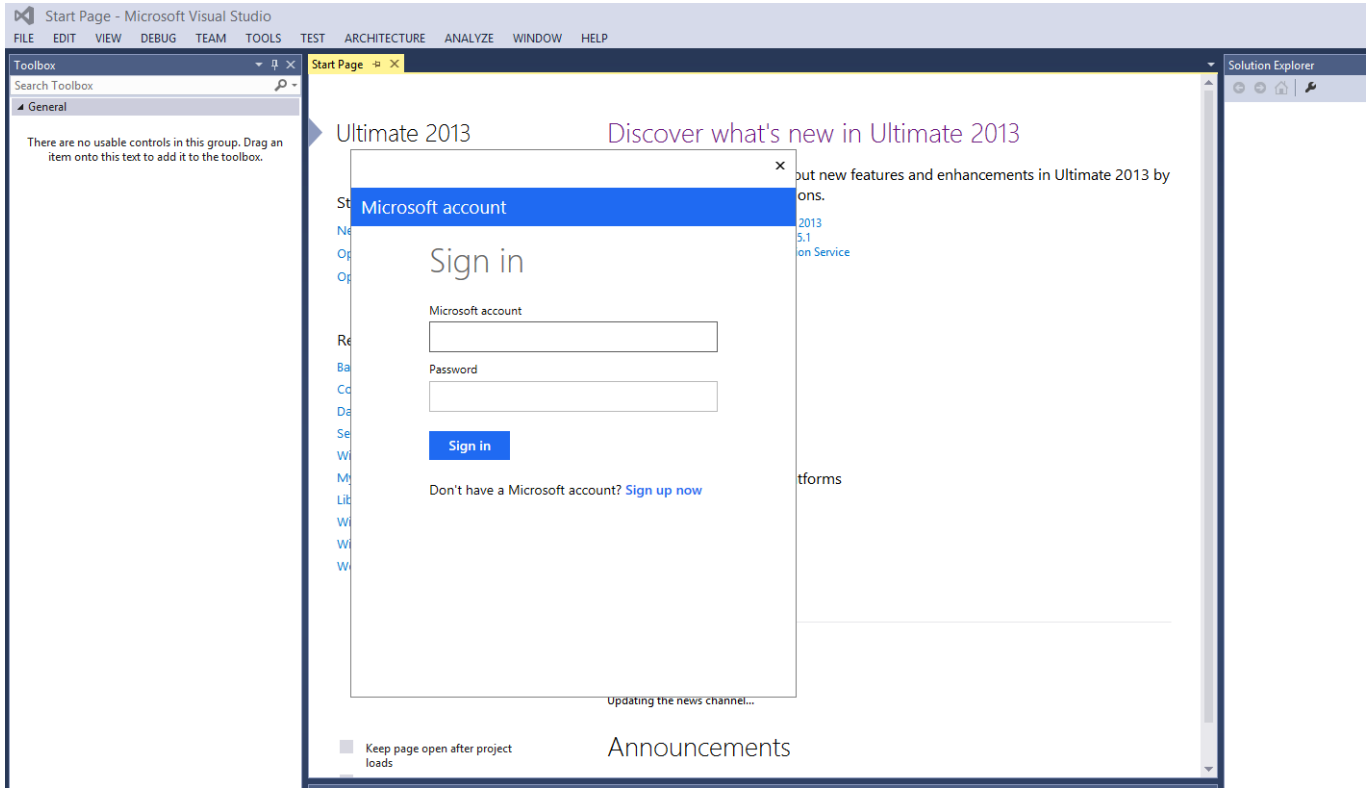
Using TFS/VSTS with Visual Studio

- Connect to TFS/VSTS
- Add Source Code to TFS/VSTS
- Check In/Check Out
- Team Explorer
- Source Control Explorer

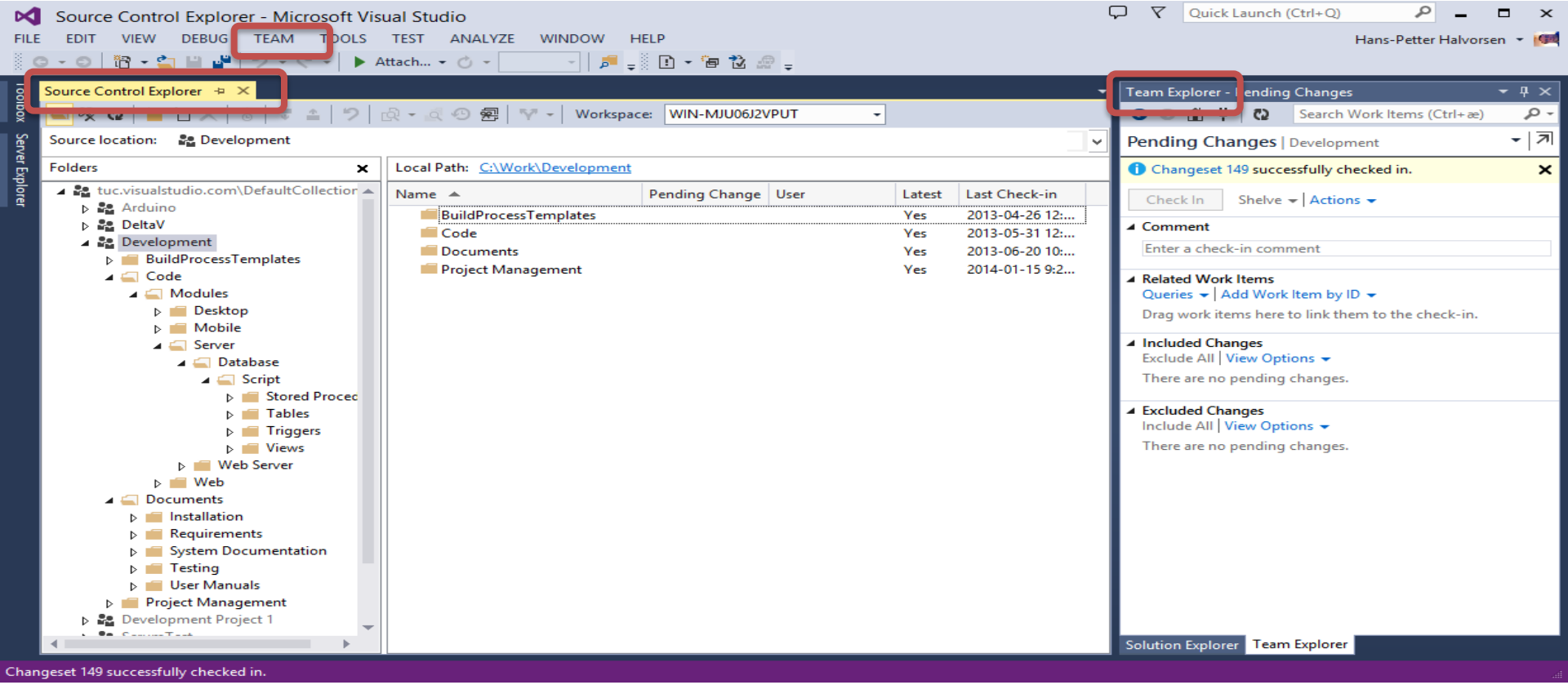
Open in Visual Studio



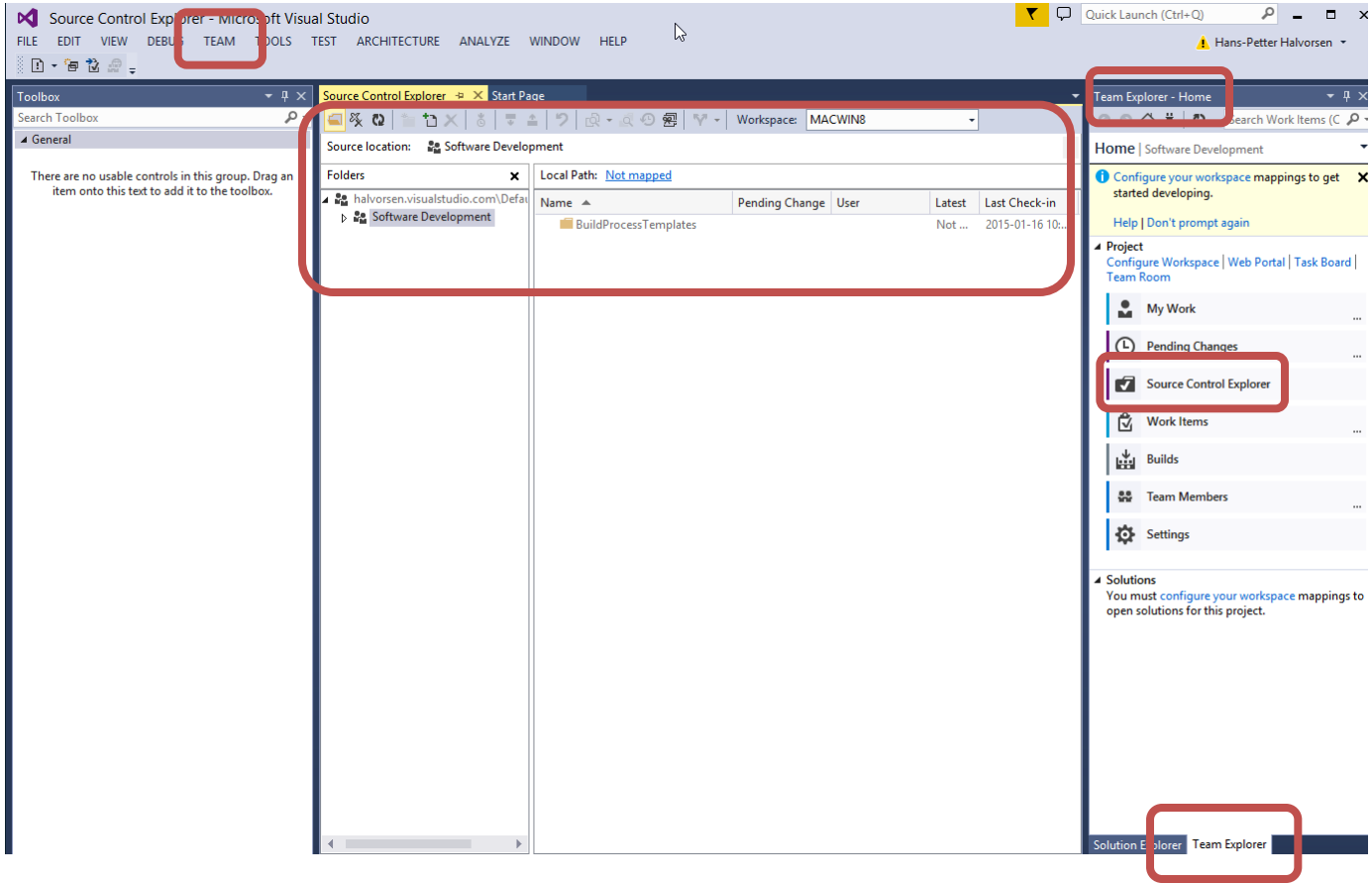
Sign in


Start Page - Microsoft Visual Studio
FILE EDIT VIEW DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP
Toolbox
Search Toolbox
General
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.
Start Page
Solution Explorer
Ultimate 2013
Discover what's new in Ultimate 2013
Microsoft account
Sign in
Microsoft account
Password
Sign in
Don't have a Microsoft account? Sign up now
Updating the news channel...
Keep page open after project loads
Announcements

TFS/VSTS in Visual Studio

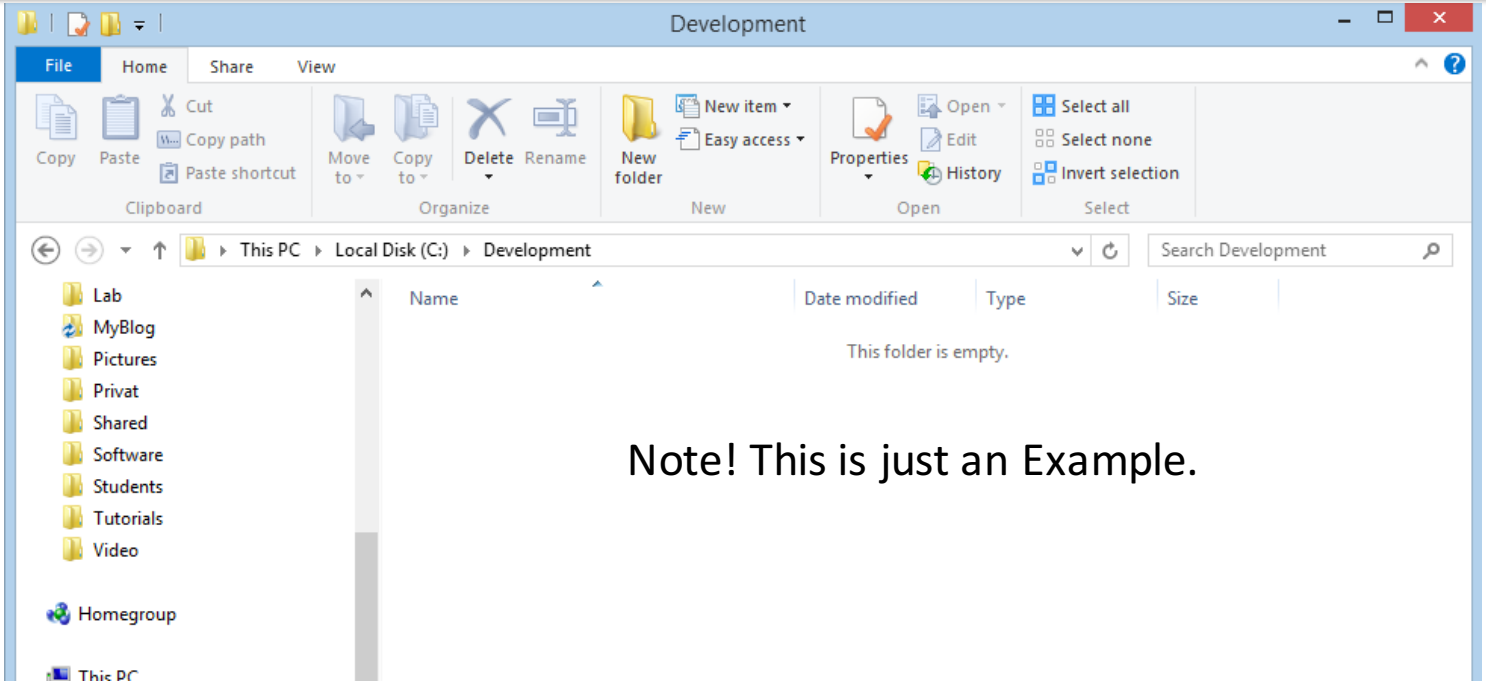


Team Explorer + Source Control Explorer

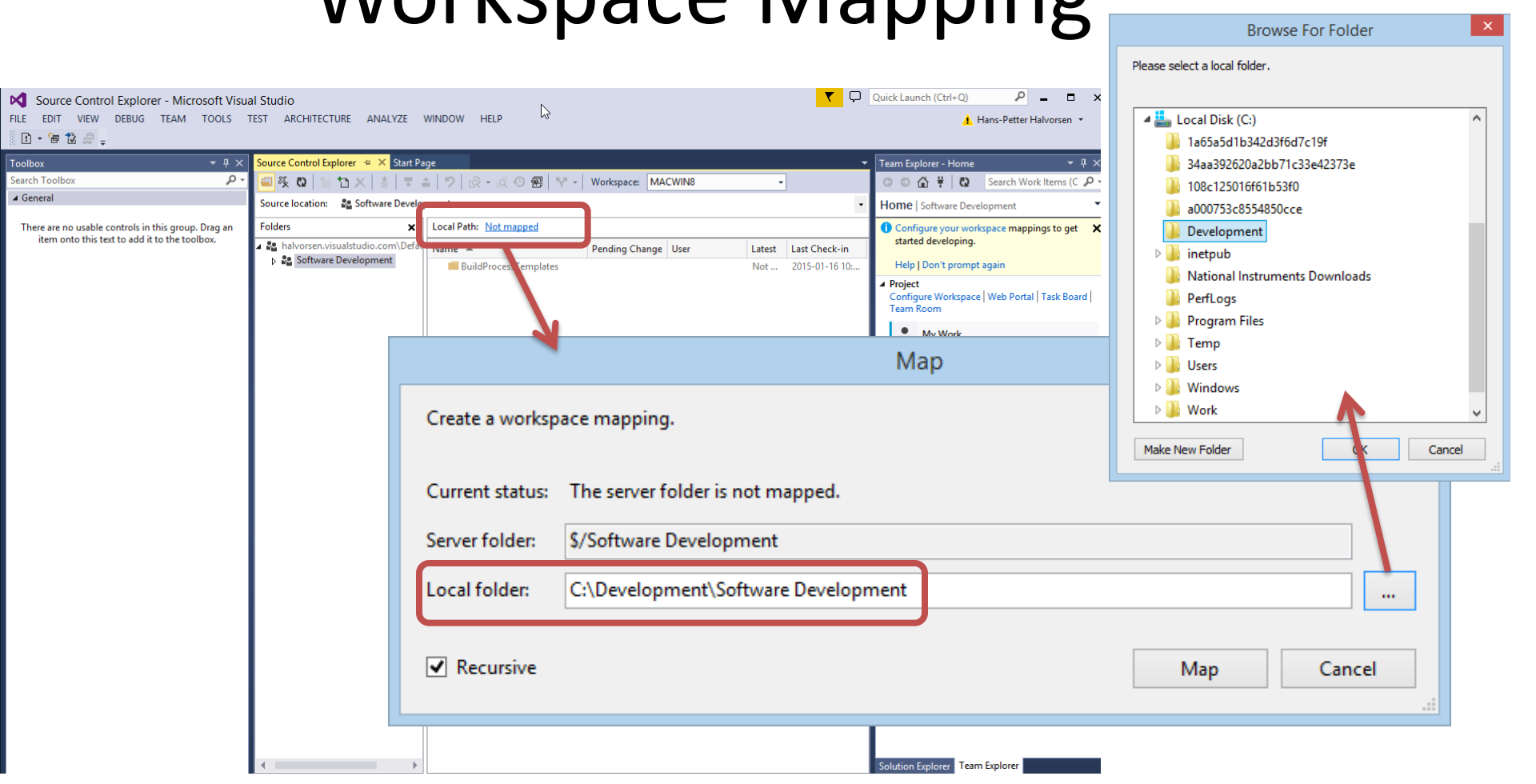


Create local Folder on your Hard drive

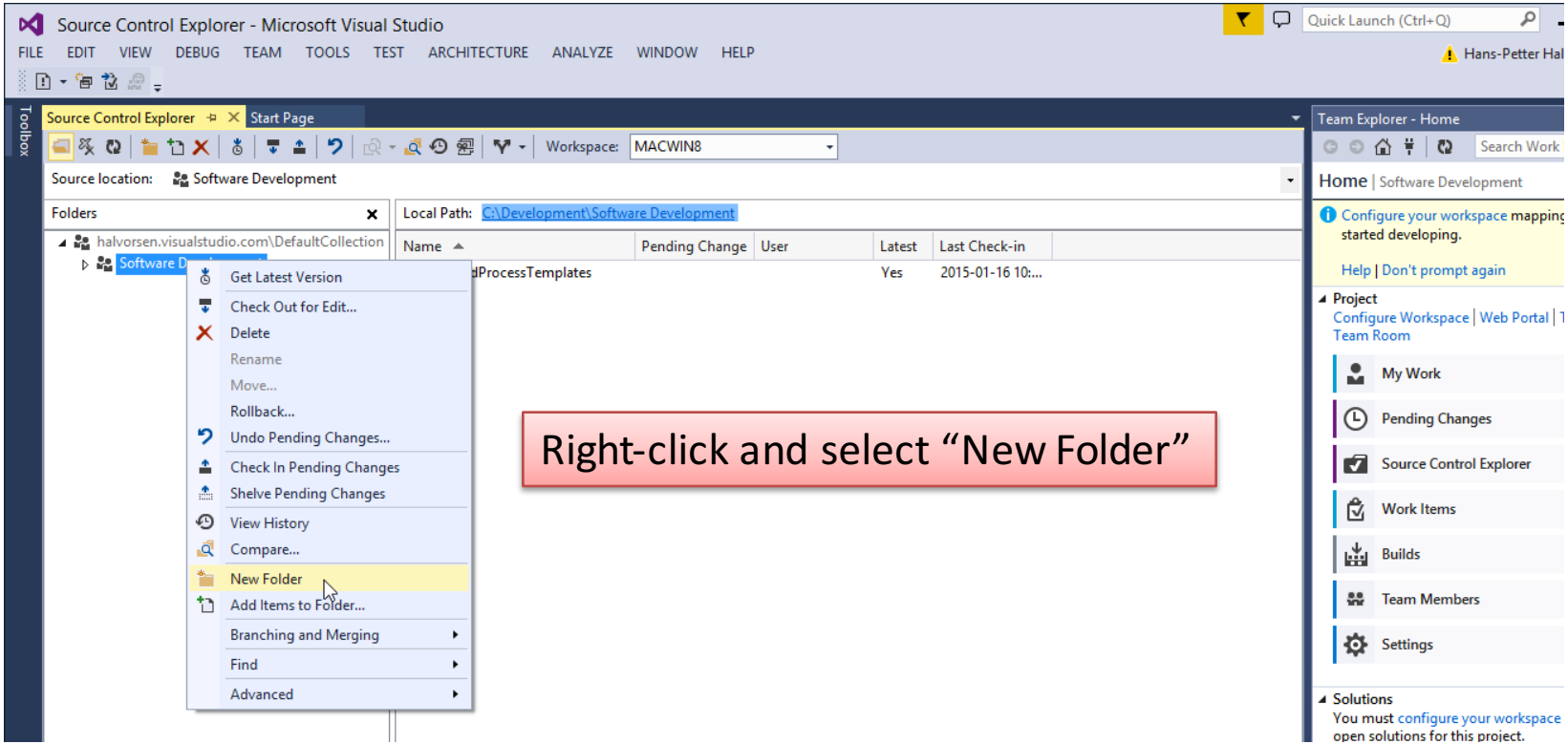
Create a local Folder on your hard drive where you want to store your files (Documents, Code Files, etc.)



Workspace Mapping

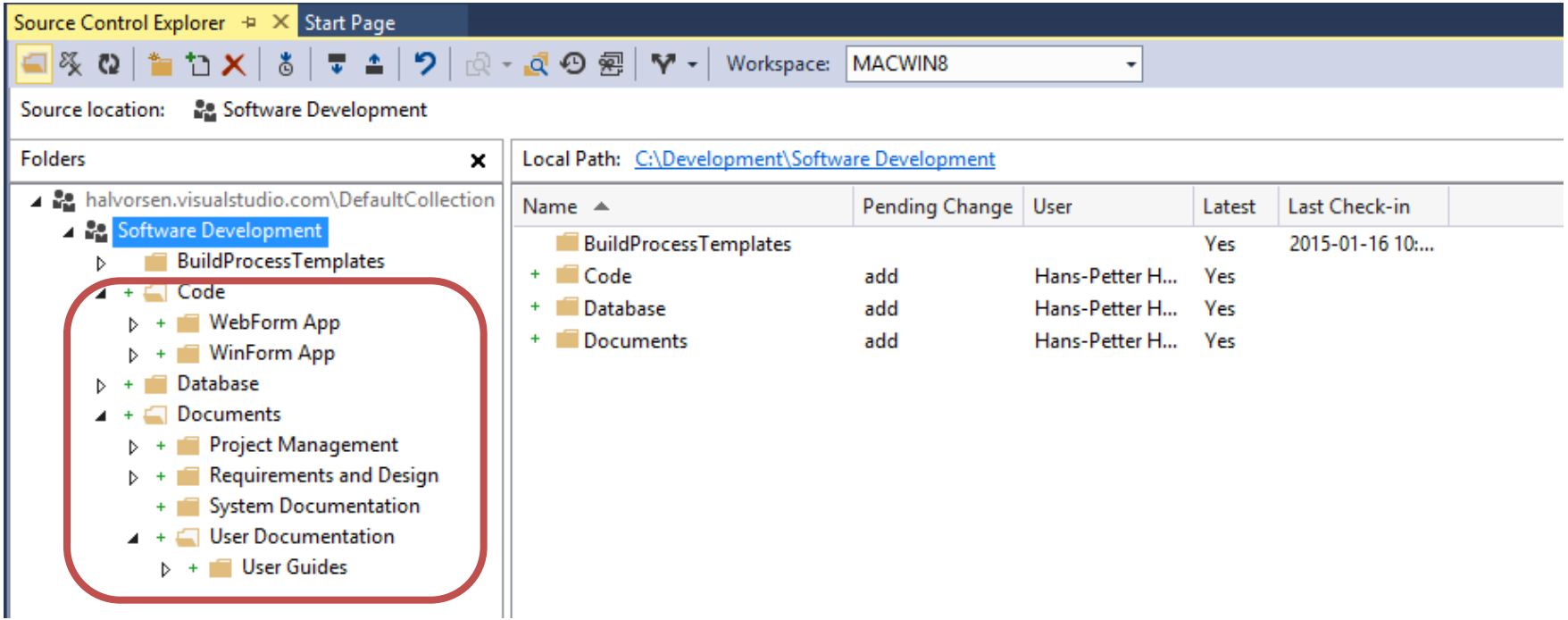


Create a Folder Structure

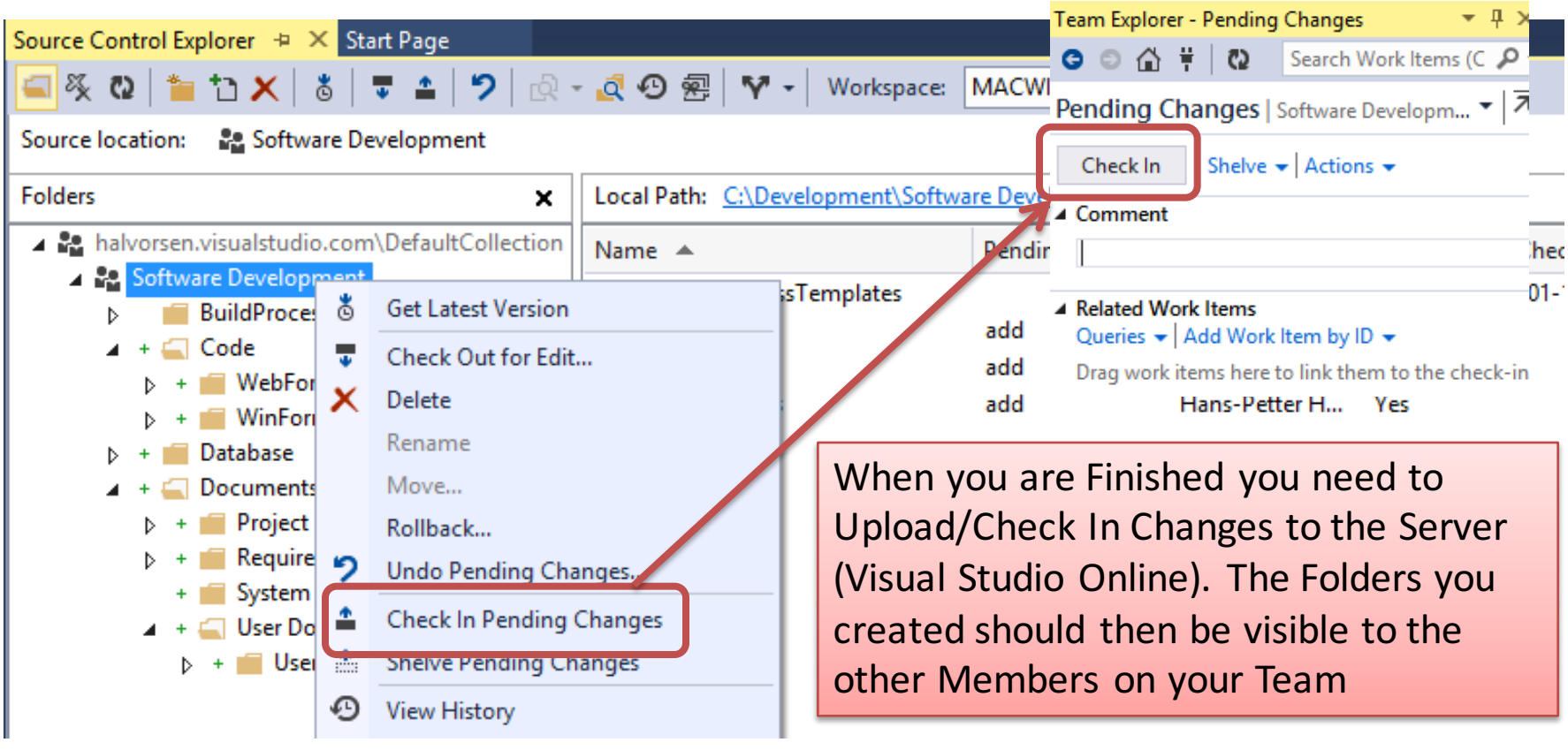


Right-click and select “New Folder”

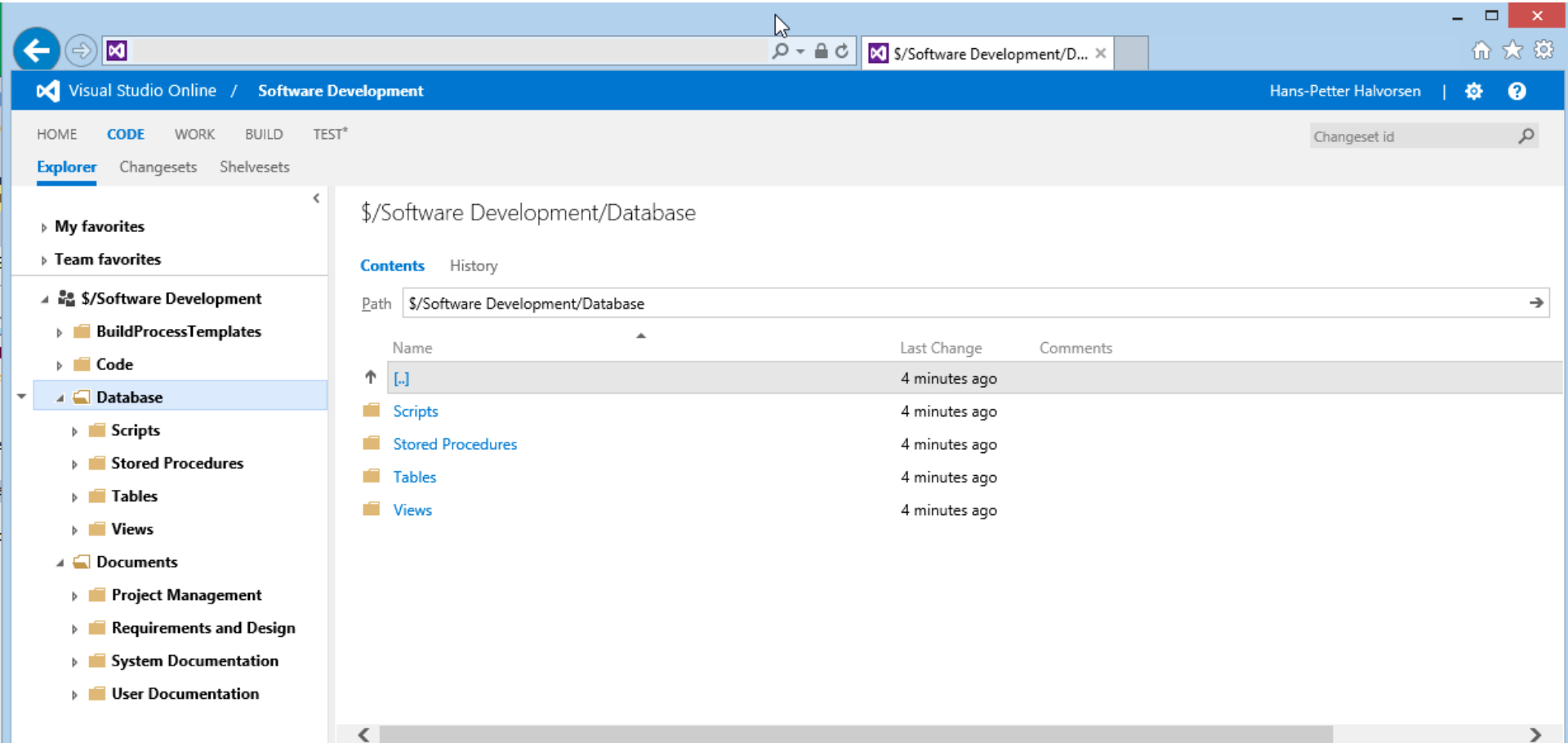
Folder Structure Example

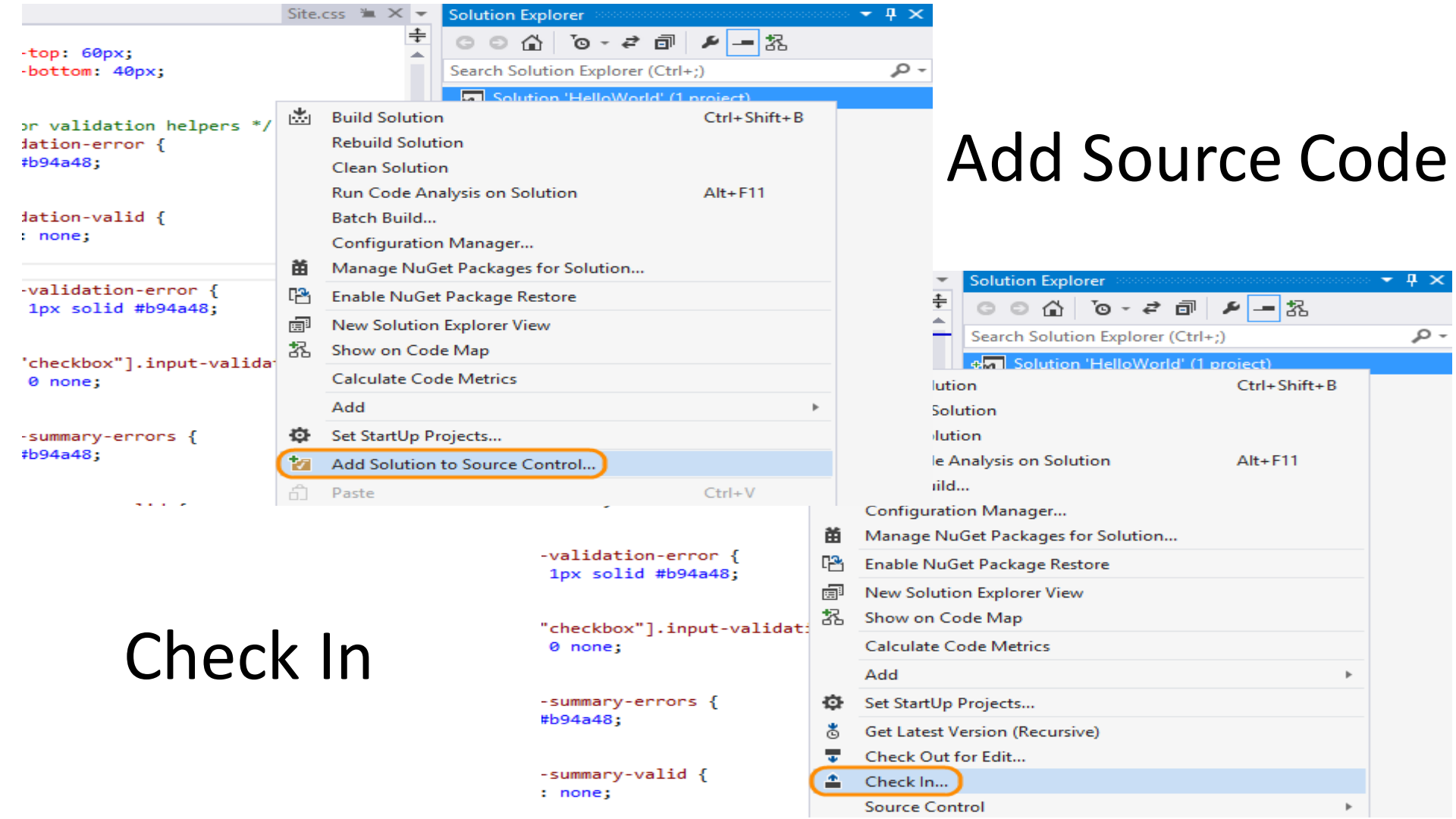


Upload/Check In Changes to the Server



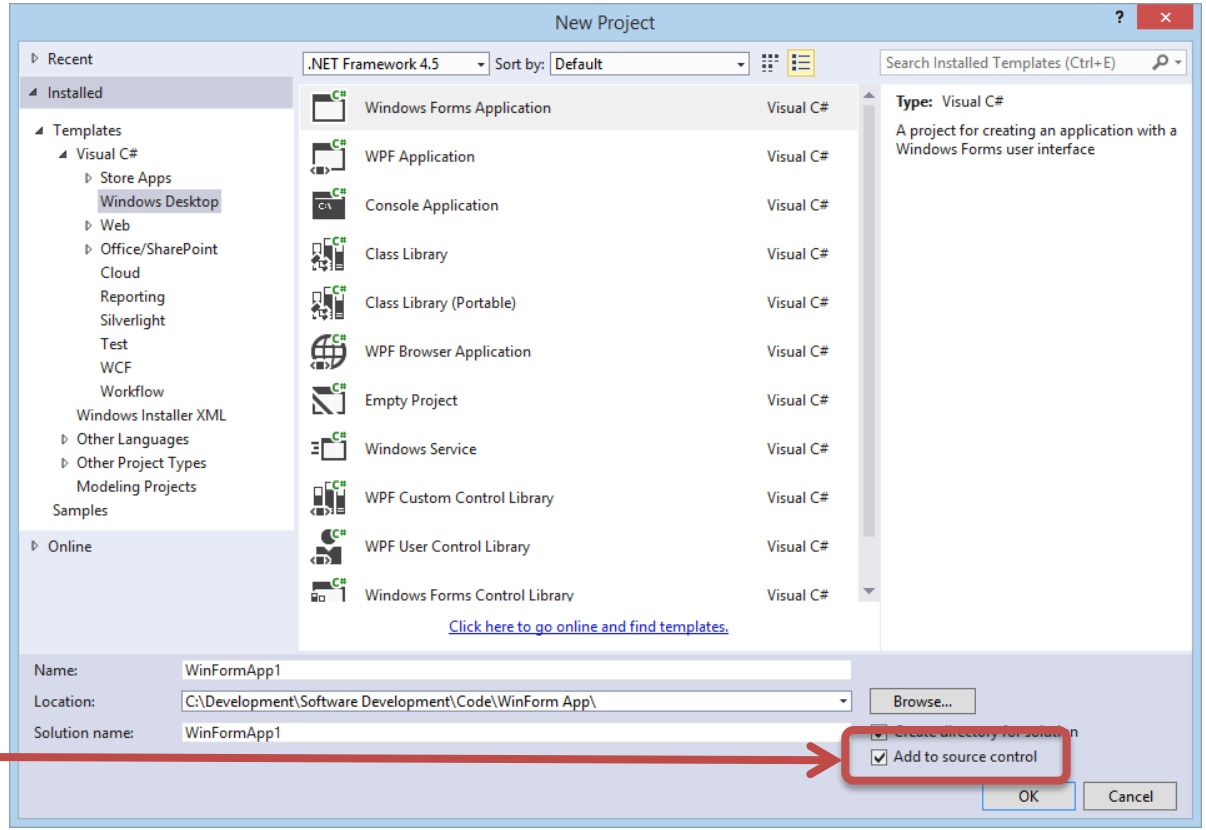
The Folders are now availible on the Server



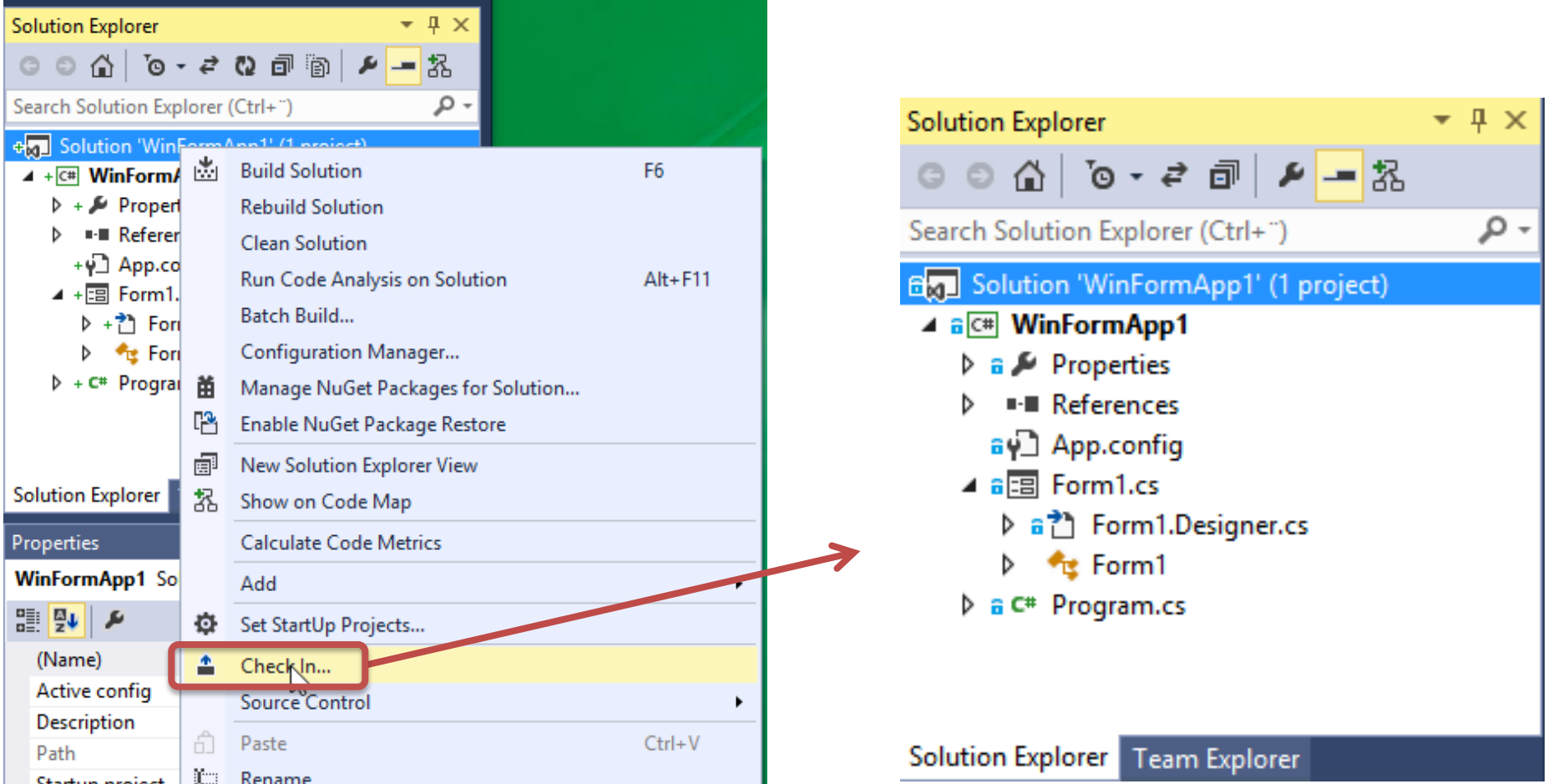

Site.css
-top: 60px;
-bottom: 40px;
or validation helpers */
dation-error {
#b94a48;
dation-valid {
: none;
-validation-error {
1px solid #b94a48;
'checkbox"].input-valida
0 none;
-summary-errors {
#b94a48;
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'HelloWorld' (1 project)
Build Solution Ctrl+Shift+B
Rebuild Solution
Clean Solution
Run Code Analysis on Solution Alt+F11
Batch Build...
Configuration Manager...
Manage NuGet Packages for Solution...
Enable NuGet Package Restore
New Solution Explorer View
Show on Code Map
Calculate Code Metrics
Add
Set StartUp Projects...
Add Solution to Source Control...
Paste Ctrl+V
Add Source Code
Check In
Get Latest Version (Recursive)
Check Out for Edit...
Check In...
Source Control

Add Code to Source Control

Create a New Project, e.g. Windows Desktop

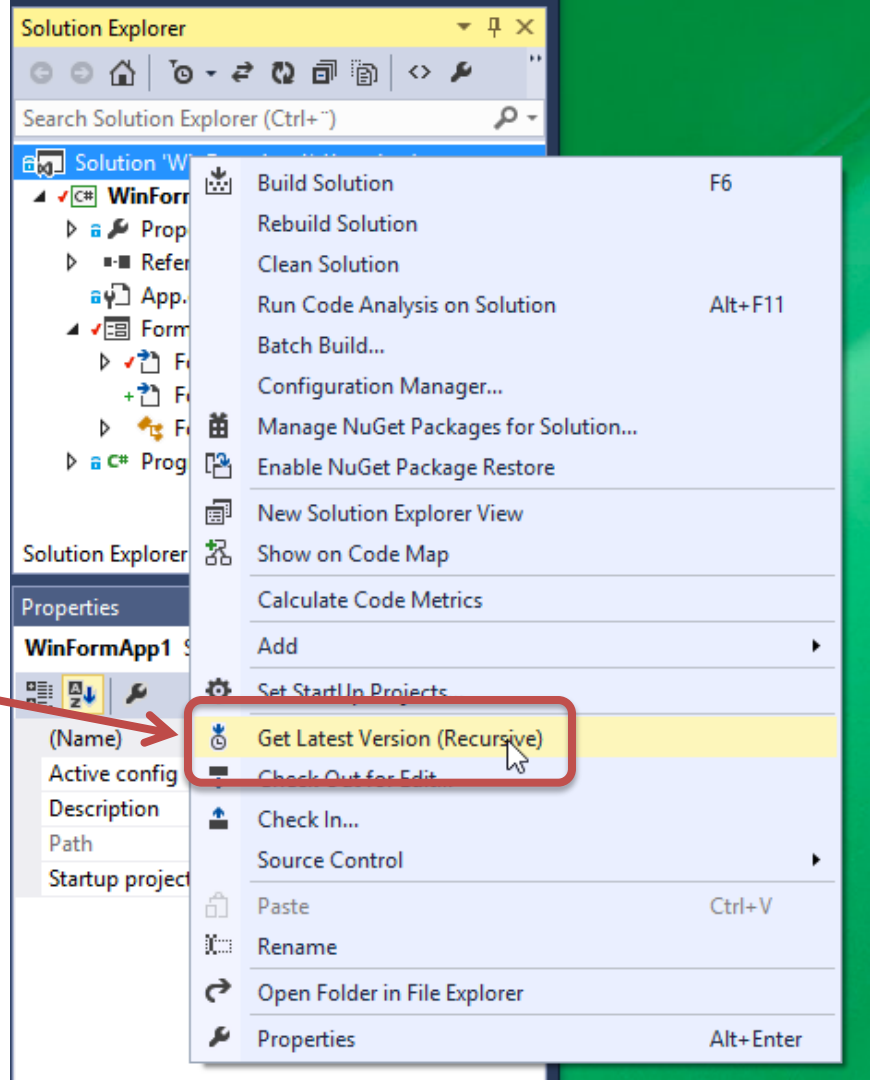


Make sure to Select this Option!!


Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'WinFormApp1' (1 project)
WinFormApp1
Properties
References
App.config
Form1.cs
Form1.Designer.cs
Form1
Program.cs
Solution Explorer
Team Explorer
Build Solution F6
Rebuild Solution
Clean Solution
Run Code Analysis on Solution Alt+F11
Batch Build...
Configuration Manager...
Manage NuGet Packages for Solution...
Enable NuGet Package Restore
New Solution Explorer View
Show on Code Map
Calculate Code Metrics
Add
Set StartUp Projects...
Check In...
Source Control
Paste Ctrl+V
Rename
Open Folder in File Explorer
Properties Alt+Enter
Properties
(Name)
Active config
Description
Path
Startup project

Get Latest Version

Before working on your Code, you should always get the latest version from the Server

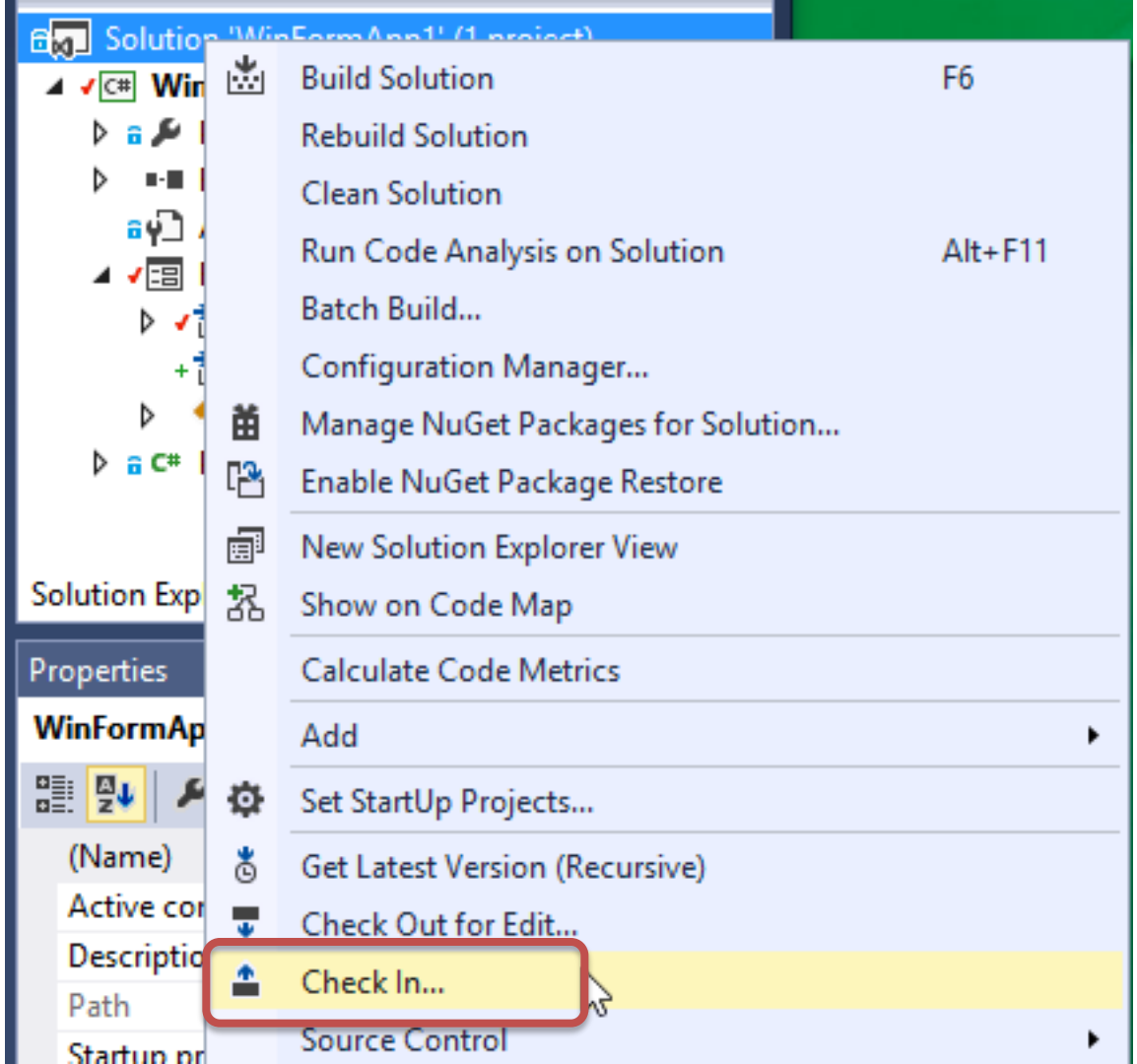


Editing your Code

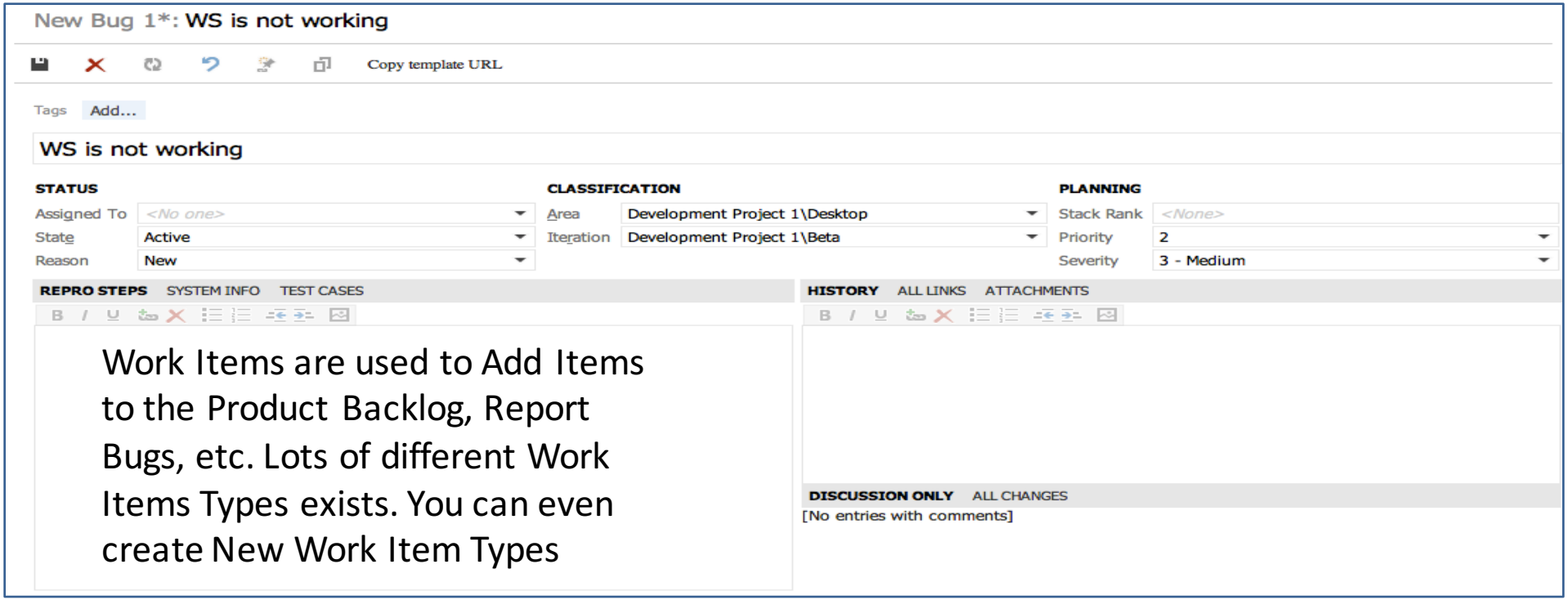
The Code you are editing are checked out automatically

Check in your Code when Finished

But before you check in your code you should first get the latest version from the server and make sure your Code Compile without Error!



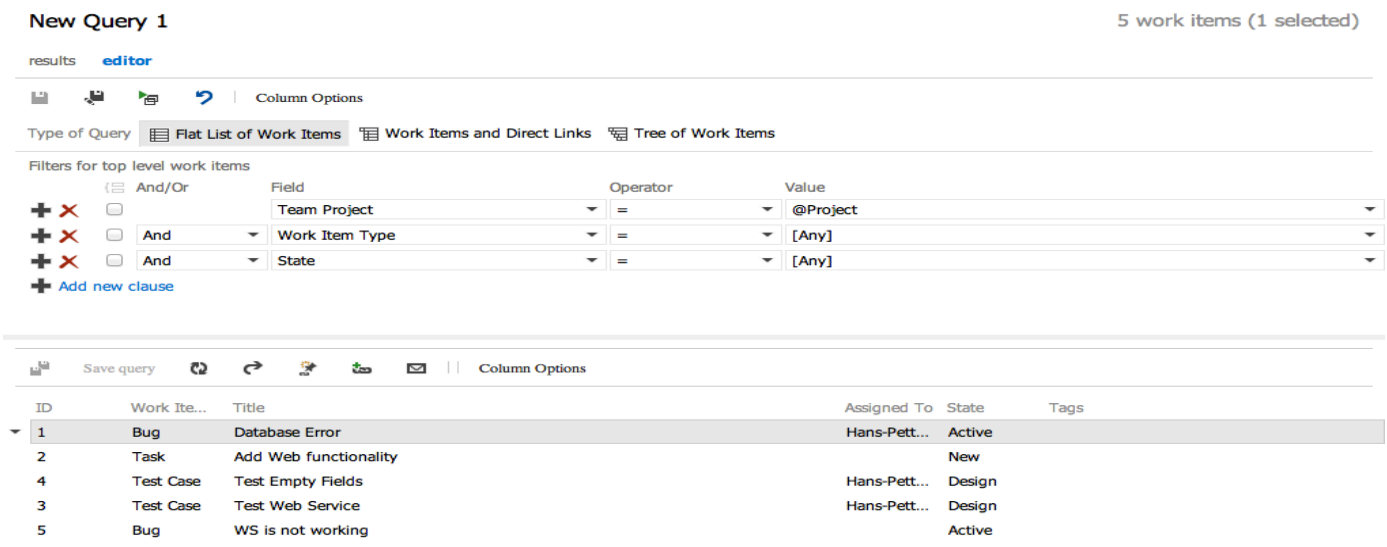
Work Items – New Bug



Work Items are used to Add Items to the Product Backlog, Report Bugs, etc. Lots of different Work Items Types exists. You can even create New Work Item Types

Queries

- Used to find existing Work Items
- You may create different Queries to make it easy to find the Work Items you need
- Queries may be personal or visible for everybody in the project (Team Queries)



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Blog: http://home.hit.no/~hansha/