

To: P. Lin and G. Steffen

From: Alexander Gust

Date: 2/15/2015

Re: Project Timekeeper Detailed Design

Report Outline

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Report Summary

This report strives to convey the detailed design decisions that are being made as the project progresses. Detailed design is nearing completion. The table structure is estimated at 90% complete, while the design (both layout and structure) is approximately 75% complete. What is expressed here is the most accurate information available at this time, but is still subject to change as other interfaces are completed.

Included in this report is also a brief narrative regarding progress on Project Timekeeper. It is meant as an update to the previously issued Status Report Document dated January 26, 2015.

Status of the Project

Work is largely on track, with the following interfaces being complete:

1. Login
2. Goals Expanded List
3. Goal Maintenance
4. Follow Up Items Expanded List
5. Follow Up Items Maintenance
6. Projects Expanded List
7. Project Maintenance
8. Tasks Expanded List
9. Task Maintenance
10. Project Teams Expanded List
11. Task Status Types Expanded List
12. Work Types Expanded List

Incomplete Interfaces:

1. Dashboard
2. Time Worked Expanded List
3. Time Worked Maintenance

All completed interfaces and stored procedures are scheduled for review on February 21, 2015. This is a delay from the original date of February 18, 2015. At this time, some of the scheduled testing time will be used to debug and unify both the layout and the database design across all completed interfaces.

After interfaces are complete, work will begin on the Reporting Interfaces.

Updated Schedule Overview

Present: 2/15/2015

Finalize and Debug Completed Interfaces: 2/21/2015

Halfway Milestone: 2/21/2015

Begin Final Report, Make final requirement adjustments (determine feasibility of optional requirements)

Begin work on Dashboard and Time Worked Interfaces

Complete remaining Interfaces: 3/26/2015

Complete report interfaces: 4/19/2015

Final testing complete, prototype ready: 4/22/2015

Detailed Design

Layout

Design

It was decided to make use of the Bootstrap framework [1] for page design. This allows for faster deployment of interfaces, and may allow for a mobile-compatible design as well if time allows. The Bootstrap interface was found insufficient for three element types including a calendar date picker [2], search-as-you-type drop down lists [3], and variable width modal dialogs [4], in which case CSS overrides were implemented. jQuery libraries were also included as a requirement of the chosen framework. An overview of included CSS and JS files is contained in Figures 1 and 2.

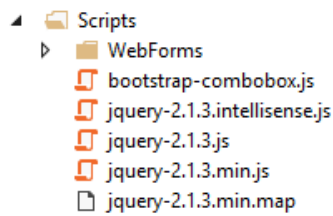


Figure 2 - JS Files

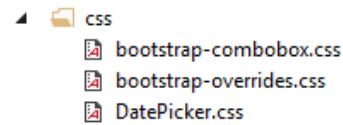


Figure 1- CSS Files

Structure

Preliminary Interface Designs were created in November, 2014 to serve as a guideline for creation of all interface screens. See Appendix I for these figures.

A consolidated design structure was then chosen to accommodate all interfaces. The structure consists of an ASP.Net MasterPage, which holds and provides general data about the user, a Layout Page, which generally holds data from a URL parameter that is related to all possible UserControls on a page, and finally multiple user controls that consume the data from the two outer containers.

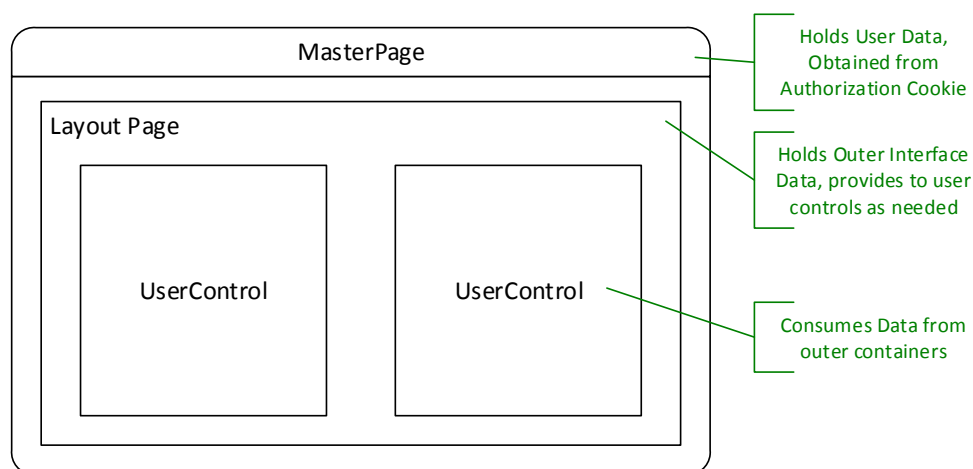


Figure 3 - Page Structure

For example, the Maintain Project interface was designed such that the User GUID and Login Name are provided by the MasterPage, the Current Project and Task numbers are held and provided by the Layout Page, and all such data is consumed by the two User Controls on this page.

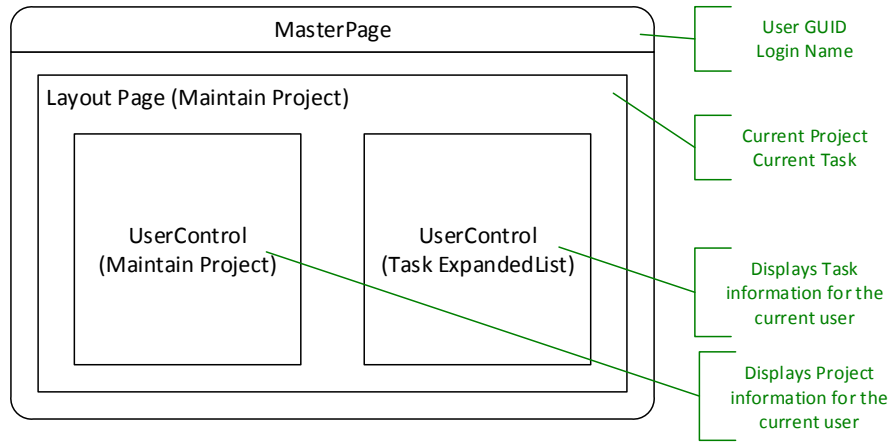


Figure 4 - Page Structure Details

Database

Due to the adjustment in the Task Status Types design, the database table design was finalized as displayed in Figure 5. Table descriptions are found following the database table design figure.

Stored Procedures will be used to perform all operations on the tables. In general, a Select, Update, Insert and Delete procedure was developed for each table.

Project Timekeeper
 Alexander Gust
 Functional Diagram
 Data Storage
 Version 3

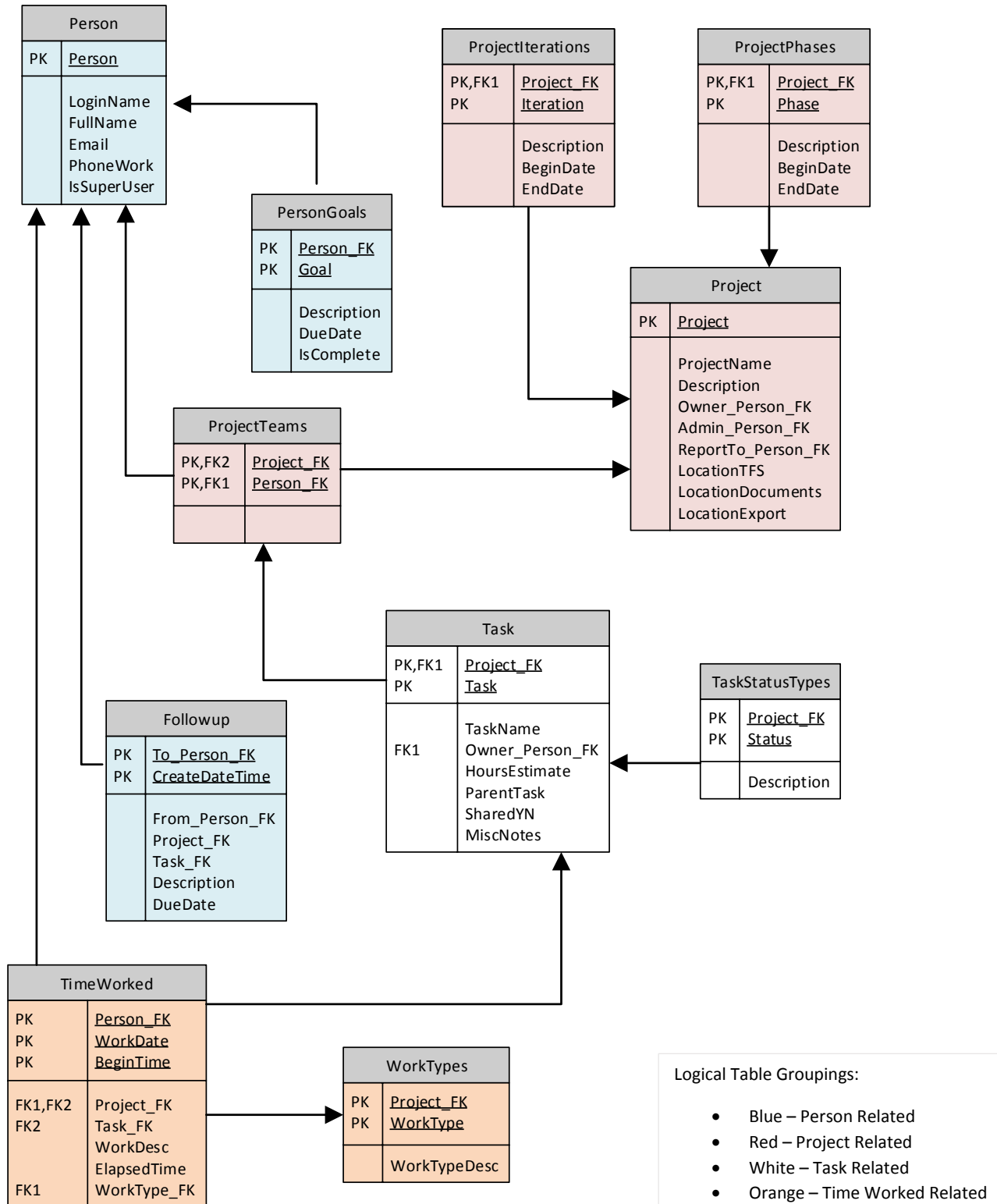


Figure 5 - Database Table Design

Database Table Descriptions and Design are as follows:

Person Table

- Contains basic info about a person who logs time on project(s)

Name	Data Type	Req'd	PK	Description
Person	UniquelIdentifier GUID	X	X	Prime Key (Part 1 of 1). The Active Directory GUID of a person to which work can be assigned.
LoginName	VARCHAR(50)			Login Name from Active Directory. Includes the Domain name.
FullName	VARCHAR(50)			The full name of a Person.
Email	VARCHAR(255)			Email address of a Person.
PhoneWork	VARCHAR(20)			Work phone number of a Person.

PersonGoals Table

- Contains one row for a Goal that a Person wishes to complete.

Name	Data Type	Req'd	PK	Description
Person_FK	UniquelIdentifier GUID	X	X	Prime key (Part 1 of 2): Foreign key to the Persons table.
Goal	VARCHAR(20)	X	X	Prime key (Part 2 of 2): Unique identifier of a Goal for a Person.
Description	VARCHAR(255)			Description of a PersonGoal.
BeginDate	DATETIME			The date when a Goal should be completed.
IsComplete	BIT			Whether or not a Goal has been completed (1=Yes, 0=No). Default is 0.

Followup Table

- Contains follow-up (to-do) or notification items.

Name	Data Type	Req'd	PK	Description
To_Person_FK	UniquelIdentifier GUID	X	X	Partial Prime Key (Part 1 of 2): Foreign key to the Person table.
CreateDateTime	DATETIME	X	X	Partial Prime Key (Part 2 of 2). Date Time Stamp from the system.
From_Person_FK	UniquelIdentifier GUID			Foreign key to the Person table. Identifies who created the Followup item.
Project_FK	VARCHAR(20)			Null or Foreign key to the Projects table.
Task_FK	VARCHAR(20)			Null or Foreign key to the Tasks table.
Description	VARCHAR(255)			Description of the intended follow-up action item.
DueDate	DATETIME			Defines when a Follow-up item should be completed.

Project Table

Contains basic info about projects. Maintained by the Project Owner or Business Admin.

Name	Data Type	Req'd	PK	Description
Project	VARCHAR(20)	X	X	Prime Key (Part 1 of 1). An identifier for the project (usually the project number).
ProjectName	VARCHAR(50)	X		Short description/name.
Description	VARCHAR(255)			Null or Description of a Project.
Owner_Person_FK	UniquelIdentifier GUID			Person acting as Project Manager/Owner. Foreign key to the Person table.
Admin_Person_FK	UniquelIdentifier GUID			Product Owner (Business Unit person). Foreign key to the Person table.
ReportTo_Person_FK	UniquelIdentifier GUID)			The Person to which the Project Owner reports information related to this Project. Foreign key to the Person table.
LocationTFS	VARCHAR(255)			Network location of or Link to a TFS Project.
LocationDocuments	VARCHAR(255)			Network location of common documents for this Project.
LocationExport	VARCHAR(255)			Network location of folder into which Time Entries are to be placed.

ProjectPhases Table

Contains definition of Project Phase time box(s). Rows will not exist for those projects that aren't using Phases. Two part primary key (Project + Phase). Maintained by the Project Owner.

Name	Data Type	Req'd	PK	Description
Project_FK	VARCHAR(20)	X	X	Primary key (Part 1 of 2). Foreign key pointer to the Project table.
Phase	VARCHAR(20)	X	X	Primary key (Part 2 of 2). Unique identifier (Name) of a Phase/Milestone for a Project.
Description	VARCHAR(50)			Description of a Phase for a Project.
BeginDate	DATETIME	X		Beginning date of a Phase for a Project.
EndDate	DATETIME	X		Ending date of a Phase for a Project.

ProjectIterations Table

Contains definition of Project Iterations. Rows will not exist for those projects that aren't using Iterations. Two part primary key (Project + Iteration). Maintained by the Project Owner/Manager.

Name	Data Type	Req'd	PK	Description
Project_FK	VARCHAR(20)	X	X	Prime Key (Part 1 of 2): Foreign key to the Project table.
Iteration	VARCHAR(20)	X	X	Prime Key (Part 2 of 2): The unique identifier of an Iteration for a Project
IterationName	DATETIME	X		The Name of an Iteration for a Project.
BeginDate	DATETIME	X		Beginning date of an Iteration for a Project.
EndDate	DATETIME	X		Ending date of an Iteration for a Project.

ProjectTeams Table

Intersection table that defines who is allowed to work on a Project. Maintained by the Project Owner.

Name	Data Type	Req'd	PK	Description
Project_FK	VARCHAR(20)	X	X	Prime Key (Part 1 of 2): Foreign key to the Project table.
Person_FK	UniquelIdentifier GUID	X	X	Prime Key (Part 2 of 2): Foreign key to the Person table.

Task Table

Contains basic info about tasks.

Name	Data Type	Req'd	PK	Description
Project_FK	VARCHAR(20)	X	X	Prime Key (Part 1 of 2): Foreign key to the Project table.
Task	VARCHAR(20)	X	X	Prime Key (Part 2 of 2): Unique Identifier for a Task belonging to a Project.
TaskName	VARCHAR(255)	X		Description/Name of a Task for a Project.
Owner_Person_FK	UniquelIdentifier GUID			Null or the Person to which this task is assigned. Foreign key to the Person table.
HoursEstimate	SMALLINT			Estimated number of hours to complete.
ParentTask	VARCHAR(20)			Null or the Task Identifier of the higher level (Parent) Task. Time cannot be logged against Parent Tasks.
SharedYN	BIT	X		Time can be logged against a shared task by anyone on the Project Team (1=Yes, 0=No). Default is 0.
MiscNotes	VARCHAR(255)			Any miscellaneous notes for a Task.

TaskStatusTypes Table

Defines the valid Status Types that any Task associated with a Project can have.

Name	Data Type	Req'd	PK	Description
Project_FK	VARCHAR(20)	X	X	Prime key (Part 1 of 2): Foreign key to the Projects table.
Status	VARCHAR(20)	X	X	Prime key (Part 2 of 2): Unique identifier of a valid Task Status for a Project. (Null=No status, InProcess=Actively being worked on, Stopped=Waiting on something, Blocked=Cannot continue - Escalation needed, Done=Completed, Cancelled=No work is to be performed).Foreign key to the Tasks table.
Description	VARCHAR(50)			Null or Description of a Task Status Type.

TimeWorked Table

Contains the time entries. Uses a 3 part primary key made up of (Person, Date Worked, Begin Time).

Name	Data Type	Req'd	PK	Description
Person_FK	UniquelIdentifier GUID		X	Prime Key (Part 1 of 3): Foreign key to the Person table.
WorkDate	DATETIME		X	Prime Key (Part 2 of 3): The date on which work was done.
BeginTime	DATETIME		X	Prime Key (Part 3 of 3): The time at which work started.
Project_FK	VARCHAR(20)			Foreign key (Part 1 of 2): Foreign key to the Task table.
Task_FK	VARCHAR(20)			Foreign key (Part 2 of 2): Foreign key to the Task table.
WorkDesc	VARCHAR(150)			Brief description of the work done.
ElapsedTime	NUMERIC(5,2)			The amount of time worked (quarter hour increment) as decimal.
WorkType_FK	VARCHAR(20)			The type of work performed. Foreign key to the WorkTypes table.

WorkTypes Table

Contains the allowable Work Types/Categories. A Work Type/Category can be assigned to each TimeWorked entry.

Name	Data Type	Req'd	PK	Description
Project_FK	VARCHAR(20)		X	Primary key (Part 1 of 2): Foreign key to the Projects table.
WorkType	VARCHAR(20)		X	Primary key (Part 2 of 2). Uniquely identifies a Type/Category of work for a Project.
WorkTypeDesc	VARCHAR(150)			Description of a Type of Work.

Stored Procedure Summary

A unified naming convention was developed for all Stored Procedures. In general, it follows the pattern:
[TableName]_[Operation Type]_[Additional Parameters Required]_[Type of Return]

Table Name: The name of the table on which this data is based

Operation Types:

- Get: Returns row(s) from a table
- Add: Inserts a row into a table
- Update: Modifies a row on a table
- Delete: Delete a row from a table

Additional Parameters Required:

It is assumed that the primary key(s) will be provided for any Add/Update/Delete statements. However, at times, additional non-implied parameters will be required. In this case, it is specified in the [Additional Parameters Required] block of the statement name.

- ForPerson – Procedure requires the specification of a user's GUID
- ForAdmin – Procedure requires the specification of the Project Admin's GUID
- ForOwner – Procedure requires the specification of the Project Owner's GUID

Type of Return:

- None Specified – Indicates a special return type. Used in the case of getting Counts only.
- OneRow – Return will be a single table row
- AllRows – Return will be multiple table rows that match the specified criteria

Procedure Name	Special Notes
usp_Counts_Get_ForPerson	Return total counts of Projects, Tasks, Work Items, Follow Up Items and Goals for a particular user. Will be used to populate headers on the dashboard.
usp_Followup_Add_ForPerson_OneRow	
usp_Followup_Delete_ForPerson_AllRows	
usp_Followup_Delete_ForPerson_OneRow	
usp_Followup_Get_ForPerson_AllRows	
usp_Followup_Get_ForPerson_OneRow	
usp_Followup_Update_ForPerson_OneRow	
usp_PersonGoals_Add_ForPerson_OneGoal	
usp_PersonGoals_Delete_ForPerson_AllGoals	
usp_PersonGoals_Delete_ForPerson_OneGoal	
usp_PersonGoals_Get_ForPerson_AllGoals	
usp_PersonGoals_Get_ForPerson_OneGoal	
usp_PersonGoals_Update_ForPerson_OneGoal	
usp_Persons_Add_Person	
usp_Persons_Get_AllRows	

usp_Persons_Get_ByGuid	Provides a method of looking up a user record by GUID. Used in cases where additional user information is needed beyond the GUID and loginName that are typically required.
usp_Projects_Add_OneRow	
usp_Projects_Delete_OneRow	
usp_Projects_Get_AllRows	
usp_Projects_Get_ForAdmin_AllRows	These procedures are used when retrieving a list of projects for those users with additional authority over certain projects. They can view projects that they own, as well as projects on which they are listed as owning a special role.
usp_Projects_Get_ForOwner_AllRows	
usp_Projects_Get_ForPerson_AllRows	
usp_Projects_Get_ForPerson_OneRow	
usp_Projects_Get_OneRow	
usp_Projects_Update_ForPerson_OneRow	
usp_ProjectTeams_Add_ForProject_OneRow	
usp_ProjectTeams_Delete_ForProject_AllRows	
usp_ProjectTeams_Delete_ForProject_OneRow	
usp_ProjectTeams_Get_ForProject_AllRows	
usp_ProjectTeams_Get_ForProject_OneRow	
usp_ProjectTeams_Update_ForProject_OneRow	
usp_Tasks_Add_OneRow	
usp_Tasks_Delete_OneRow	
usp_Tasks_Delete_Project	
usp_Tasks_Get_AllRows	
usp_Tasks_Get_ForPersonProject_AllRows	Because the Tasks layout page receives its "Task" parameter via the URL, additional security filtering was needed. We need to be sure the Person is authorized to view the tasks in question (i.e. the Person is listed on the project).
usp_Tasks_Get_ForProject_AllRows	Non-Security filtered procedure retained for future use.
usp_Tasks_Get_OneRow	
usp_Tasks_Update_OneRow	
usp_TaskStatusTypes_Add_OneRow	
usp_TaskStatusTypes_Delete_OneRow	
usp_TaskStatusTypes_Get_AllRows	
usp_TaskStatusTypes_Get_ForProject_AllRows	
usp_TaskStatusTypes_Get_OneRow	
usp_TaskStatusTypes_Update_OneRow	
usp_TypeRoles_Get_AllRows	Used to obtain the possible Team Member roles for a Project.
usp_WorkTypes_Add_OneRow	
usp_WorkTypes_Copy_ForProject_AllRows	
usp_WorkTypes_Delete_OneRow	
usp_WorkTypes_Get_AllRows	
usp_WorkTypes_Get_ForProject_AllRows	
usp_WorkTypes_Get_OneRow	
usp_WorkTypes_Update_OneRow	

Figure 6 - Stored Procedures

References

- [1] "Bootstrap Framework," [Online]. Available: <http://getbootstrap.com/>.
- [2] "bootstrap-datepicker," Eternicode, [Online]. Available: <https://github.com/eternicode/bootstrap-datepicker>.
- [3] D. Farrell, "bootstrap-combobox," [Online]. Available: <https://github.com/danielfarrell/bootstrap-combobox>.
- [4] "BootStrap 3 Variable Width Modal," [Online]. Available: <http://codepen.io/ksondere/full/tArl/>.

Appendix I – Preliminary Layout Designs

Only visible to SuperUsers

Project Time – Home for David Barber

Maintain Users

Time Worked:

Last: 10/12/2014 from 2:45PM for 2.25 hours, Project: 4200, Task: 22861, Type: Meeting

Due Date

My Follow-Up Items

	Due Date		From	Project	Task
		11/16/2014	Need to implement the new database	David Barber	2564 14682
		11/19/2014	There's a problem with the login screen. Can't use orange buttons.	Jim Flannigan	4200
		12/05/2014	Finish documentation for the Cost of Goods calculation.	David Barber	6355 220082

Due Date

Completed

My Goals

		03/15/2015	<input type="checkbox"/>	Attend 2 seminars that relate to Project Management. Prepare a high level overview of th...
		11/19/2014	<input checked="" type="checkbox"/>	Design a new application to be used In-House and present design to superiors.
		02/14/2015	<input type="checkbox"/>	Complete two "Ride-Alongs" with Non-IT staff members.

My Projects

		6355	Profit & Loss Statements - Finance
		4200	Catalog Export - Merchandising
		2564	Store Design – Sales and Business

Tasks for Project: 2564

Status

		14858	Draw Store Design Landing Page	Done
		14682	New table for Layout Planning	InProcess

Time Worked Reports:

Begin Date:

10/01/2014

End Date:

10/31/2014

Detailed

Summary

Work Type

Parent Task

Select a User

Only visible to Project Owner/Admins, Project Managers, and Business Product Owners

Figure 7 - Dashboard Interface Mockup

Project Time – Maintain Follow-up Items for David Barber

Due Date		From	Project	Task
11/16/2014	Need to implement the new database	David Barber	2564	14682
11/19/2014	There's a problem with the login screen. Can't use orange buttons.	Jim Flannigan	4200	
12/05/2014	Finish documentation for the Cost of Goods calculation.	David Barber	6355	220082
12/15/2014	Turn in the Landing Web Page design to Larry.	David Barber	2564	14858

Recipient

David Barber

Description

Finish documentation for the Cost of Goods calculation. Selected item above and am making changes to the description. I'll click the Save button when I'm done.

Due Date

12/05/2014



Project

6355 – HVAC Conversion

Task

220082 – P & L Report

Add

Delete

Save

Back to Home

Figure 8 - Follow Up Items Maintain Interface Mockup

Project Time – Maintain Goals for Frank Talbot

Goal

Seminars

Description

Attend 2 seminars that relate to Project Management. Prepare a high level overview of what you learned. Present the overview to your peers.

Due Date

08/15/2015



Completed

Yes



No



Add

Delete

Save

Back

Figure 9 - Goals Maintain Interface Mockup

Project Time – Maintain Projects for Harold Davis

Project: Is known when selected from Home page

Name:

Description: Inquire only, unless the current User is the Supervisor.

Project: Owner Is the Business Unit Stakeholder.

Admin

Supervisor Is the Project Owner's Supervisor.

Links/Paths: Common

TFS Project

Export Path

----- Owner/Admin Functions -----

Team Work Types Task Status's Phases Iterations Tasks Save Delete Back

Figure 10 - Projects Maintain Interface Mockup

Project Time – Maintain Tasks

Project: Store Design – Sales and Business

Task: New SQL table for Layout Planning

Name:

Notes:

Is Shared: ☒ When Shared, anyone on the Project Team can log time against Task.

Task Owner:

Parent Task:

Est. Hours: Can be Null or any existing Task for this Project.

Change Status Add Followup Save Delete Back Returns to Home or Maintain Projects

Figure 11 - Tasks Maintain Interface Mockup

Project Time – Maintain Work Types

Project: 2564
 Project Name: Store Design – Sales and Business
 Description: Redesign Do it Center recommended sales floor layout.

Work Types		
	Other	Administrative, Other, Miscellaneous
	Design	Product, Package, Process Design
	Document	Create, Update Documentation
	Develop	Create, Update Source Code Modules
	Test	Test Product, Package, Module, etc...
	Meeting	Prep, Schedule, Attend Meetings

Status Name:

Description:

Returns to the Maintain Projects page

Figure 12 - Work Types Maintain Interface Mockup

Project Time – Maintain Project Phases

Project: 2564
 Project Name: Store Design – Sales and Business
 Description: Redesign Do it Center recommended sales floor layout.

Project Phases				
	Name		Begin	End
	Inception	Analyze, Find Resources	03/01/2014	03/31/2014
	Design	Create design documents...	04/01/2014	04/30/2014
	Execution	Develop application	05/01/2014	05/31/2014
	Delivery	Implement, Training	06/01/2014	06/30/2014

Phase:

Description:

Begin Date:

End Date:

Returns to the Maintain Projects page

Figure 13 - Project Phases Maintain Interface Mockup

Project Time – Maintain Project Iterations

Project: 2564

Project Name: Store Design – Sales and Business

Description: Redesign Do it Center recommended sales floor layout.

✖	✎	Name	Project Iterations	Begin	End	
✖	✎	2014March	March thru April 2014	03/01/2014	03/31/2014	
✖	✎	2014April	April thru May 2014	04/01/2014	04/30/2014	
✖	✎	2014May	May thru June 2014	05/01/2014	05/31/2014	
✖	✎	2014June	June thru July 2014	06/01/2014	06/30/2014	

Iteration: 2014April

Description: April thru May 2014

Begin Date: 04/01/2014

End Date: 04/30/2014

Returns to the Maintain Projects page

Add/Update Iteration

Back to Project

Figure 14 - Project Iterations Maintain Interface Mockup

Project Time – Maintain Project Teams

Project: 2564

Short Desc: Store Design – Sales and Business

Description: Redesign Do it Center recommended sales floor layout.

✖	Team Members	
✖	Barbara Abbott	
✖	Carl Anderson	
✖	David Barber	
✖	Kyle Malone	
✖	Jackie Saunders	

List does not include Owner, Admin, or Supervisor

Person: Please Select from list

Add to Team

List contents come from the Persons table.

Returns to the Maintain Projects page

Back to Project

Figure 15- Project Teams Maintain Interface Mockup

Project Time – Maintain Task Status Types

Project: 2564

Project Name: Store Design – Sales and Business

Description: Redesign Do it Center recommended sales floor layout.

Task Status's		
<input checked="" type="checkbox"/>	InProcess	Being Developed
<input checked="" type="checkbox"/>	Stopped	Waiting on someone or something
<input checked="" type="checkbox"/>	Blocked	Cannot continue, Escalation needed
<input checked="" type="checkbox"/>	Complete	Ready for QA or User review
<input checked="" type="checkbox"/>	Done	Meets the definition of "Done"
<input checked="" type="checkbox"/>	Cancelled	No work is to performed

Status Name: Stopped

Description: Waiting on someone or something

Add/Update Status

Returns to the Maintain Projects page

Back to Project

Figure 16 - Task Status Types Maintain Interface Mockup

Project Time – Time Entry - David Barber

Last Time Entry: 10/12/2014 from 2:45PM for 2.25 hours, Project: 4200, Task: 22861, Type: Meeting

Date: 10/31/2014

Begin: 10:15 AM

Hours: 1.25

Project: 2564

Store Design – Sales and Business

Task: 14682

InProcess - New table for layout planning

Work Type: Design

Work Desc: Worked on designing the Time Worked Entry page layout.

Can be selected (at right).

6	12	
7	1	
8	2	00
9	3	15
10	4	30
11	5	45

A P

Attach this Time Worked entry to a Personal Goal.

Modify the current Status of this Task.

Create a Follow up item for any Team Member.

Attach To Goal

Change Status




Add Followup







Save


Back to Home



Figure 17 - Time Worked Entry Maintain Interface Mockup

Project Time – Maintain Time Worked - David Barber

Search Select, Date:  Project:  Exclude Status's: 

Worked Items				Begin	Hours		Project	Task	Status
	09/10/2014	8:00AM	4.00	Implemented the new database table			2564	14682	Done
	09/14/2014	1:00PM	3.00	Corrected Item drop-down combo box multi-select functionality			4200	20253	Ready-QA
	11/15/2014	8:00AM	2.50	Worked on documentation of the Cost of Goods calculation.			6355	220082	InProcess
	11/16/2014	11:30AM	1.25	Hosted meeting to demo completed Sprint backlog items			2564	14656	Done
	11/16/2014	1:00PM	2.00	Started design of the Landing Web-Page			4200	20030	InProcess
	11/16/2014	3:00PM	1.50	Presented design of Retail Space Layout page to Product Owner			2564	14588	InProcess

Date:  Begin: Hours:

Project:  Store Design – Sales and Business
 Task:  InProcess - New table for layout planning

Work Type: 

Work Desc:


6	12	
7	1	
8	2	
9	3	
10	4	
11	5	00
		15
		30
		45

Figure 18 - Time Worked Expanded List Interface Mockup