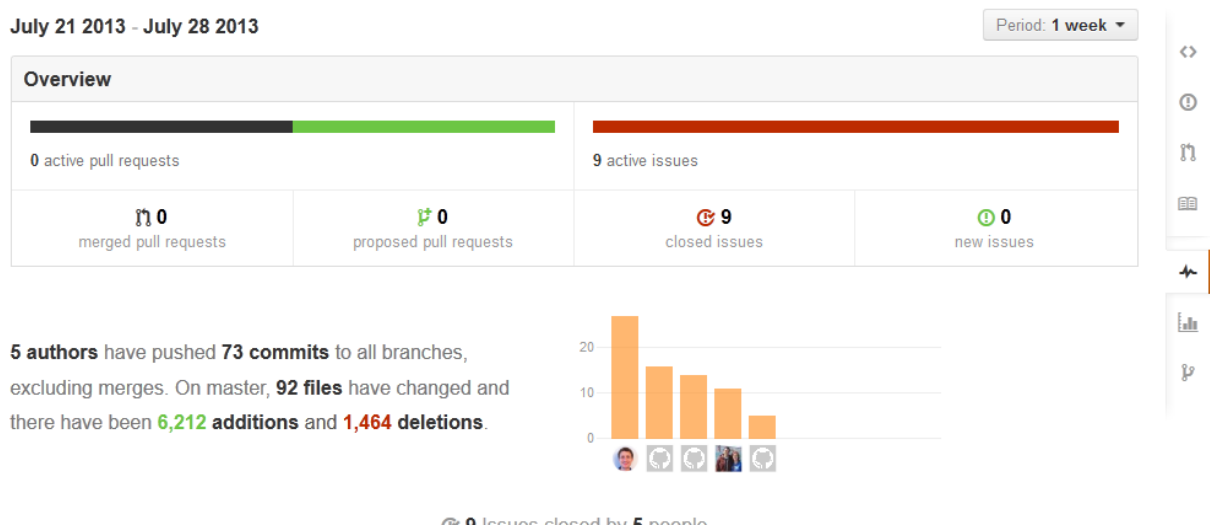# Team 3 Week 12 Deliverables

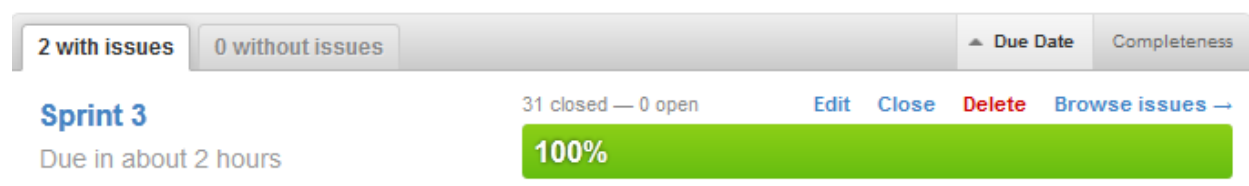## This Weeks Project Velocity

9 Use Cases Finished – High Productivity Week

The high productivity was due to it being out last week of development. Besides the 9 use cases finished multiple use cases were improved.

Status for Sprint 3

Each of the use cases that were completed this week is shown above. All items that were not completed in Sprint 3 have been moved back onto the backlog. There are a couple of items which need to be cleaned up from the backlog, such as the ingredient batch integration. There are currently 13 issues on in the backlog. Some of them have some progress made, but were not completed in time for the Sprint 3 deadline.

Test Results – Test coverage has really improved (218 tests). A lot of extra detail was added into the recipe section. Before that commit all 218 tests

passed. The tests will be cleaned up with minimal effort. Here is the current report:

▷ **Failed Tests** (11)
◢ **Passed Tests** (207)
✅ RegisterUser_TEST	13 sec
✅ TestABV	3 ms
✅ TestABVPercentage	2 ms
✅ TestAddBatchAction	4 sec
✅ TestAddBatchNotes	6 sec
✅ TestAddMeasurement	4 sec
✅ TestAddMeasurement	3 sec
✅ TestAverageReturnsAverage	20 ms
✅ TestAverageUserCantViewR...	4 ms
✅ TestAverageWithAnonymo...	2 ms
✅ TestAverageWithNonExistin...	2 ms
✅ TestAverageWithNoRatings...	2 ms
✅ TestBatchActionDelete	3 sec
✅ TestBatchActionDeleteNot...	3 sec
✅ TestBatchActionDetails	4 sec
✅ TestBatchActionEdit	3 sec
✅ TestBatchActionEditModelI...	3 sec
✅ TestBatchActionEditPost	3 sec

Test	Time
✅ TestBatchActionList	2 sec
✅ TestBatchActionUserCanno...	3 sec
✅ TestBatchActionUserCanno...	2 sec
✅ TestBatchAndUserMustBeU...	5 sec
✅ TestBatchCreate	2 sec
✅ TestBatchDelete	3 sec
✅ TestBatchDeleteNoteConfir...	3 sec
✅ TestBatchDetailsUserRating...	4 sec
✅ TestBatchEdit	3 sec
✅ TestBatchEditModelInvalid	4 sec
✅ TestBatchEditPost	4 sec
✅ TestBatchList	3 sec
✅ TestBatchNoteDelete	4 sec
✅ TestBatchNoteDeleteNote...	4 sec
✅ TestBatchNoteDetails	4 sec
✅ TestBatchNoteEdit	4 sec
✅ TestBatchNoteEditModelIn...	4 sec
✅ TestBatchNoteEditPost	4 sec
✅ TestBatchNoteUserCannot...	4 sec
✅ TestBatchNoteUserCannot...	4 sec
✅ TestCanEditCollaborator	4 sec
✅ TestCanEditCollaborator	4 sec
✅ TestCanEditCollaborator	4 sec
✅ TestCanEditOwned	3 sec
✅ TestCanEditOwned	4 sec
✅ TestCanEditOwned	4 sec
✅ TestCanEditOwned	5 sec
✅ TestCanGetAuthorName	4 sec
✅ TestCanGetPerformerName	4 sec
✅ TestCanHaveMultipleColla...	4 sec
✅ TestCannotEditFriend	4 sec
✅ TestCannotEditFriend	4 sec
✅ TestCannotEditFriend	4 sec
✅ TestCannotEditFriend	6 sec
✅ TestCanOnlyAddSameColla...	5 sec
✅ TestCanRate	4 sec
✅ TestCanRetrieveAssociated...	6 sec
✅ TestCanRetrieveAssociated...	4 sec
✅ TestCanRetrieveAssociated...	3 sec
✅ TestCanRetrieveAssociated...	4 sec

✅ TestCanRetrieveAssociated...	4 sec	
✅ TestCanRetrieveAssociated...	4 sec	
✅ TestCanRetrieveAssociated...	3 sec	
✅ TestCanRetrieveAssociated...	6 sec	
✅ TestCanViewCollaborator	4 sec	
✅ TestCanViewCollaborator	4 sec	
✅ TestCanViewCollaborator	3 sec	
✅ TestCanViewCollaborator	4 sec	
✅ TestCanViewFriend	4 sec	
✅ TestCanViewFriend	4 sec	
✅ TestCanViewFriend	5 sec	
✅ TestCanViewFriend	4 sec	
✅ TestCanViewOwned	3 sec	
✅ TestCanViewOwned	3 sec	
✅ TestCanViewOwned	5 sec	
✅ TestCanViewOwned	3 sec	
✅ TestCommentCanBeExactly...	4 sec	
✅ TestCommentCannotBeEm...	4 sec	
✅ TestCommentCannotBeLon...	3 sec	
✅ TestContainerDelete	4 sec	
✅ TestContainerEditModelInv...	4 sec	
✅ TestContainerEditPost	4 sec	
✅ TestContainerList	3 sec	
✅ TestContainerMayHaveOpt...	4 sec	
✅ TestContainerOnlyOwnedList	3 sec	
✅ TestContainerUnauthorized...	3 sec	
✅ TestCreateBatch	3 sec	
✅ TestCreateBatchAction	3 sec	
✅ TestCreateBatchAction	4 sec	
✅ TestCreateBatchActionMod...	2 sec	
✅ TestCreateBatchActionPost	2 sec	
✅ TestCreateBatchComment	3 sec	
✅ TestCreateBatchModelInval...	3 sec	
✅ TestCreateBatchNote	4 sec	
✅ TestCreateBatchNoteMode...	5 sec	
✅ TestCreateBatchNotePost	4 sec	
✅ TestCreateBatchPost	7 sec	
✅ TestCreateBatchRating	4 sec	
✅ TestCreateContainer	4 sec	
✅ TestCreateContainer	3 sec	
✅ TestCreateContainerModelI...	3 sec	
✅ TestCreateContainerPost	3 sec	
✅ TestCreateMeasurement	3 sec	

Test	Duration
✅ TestCreateMeasurementM...	3 sec
✅ TestCreateMeasurementPost	3 sec
✅ TestCreateRecipe	3 sec
✅ TestCreateRecipeModelInv...	3 sec
✅ TestCreateRecipePost	3 sec
✅ TestCreateUserCantViewB...	21 ms
✅ TestCreateWithAnonymous...	3 sec
✅ TestCreateWithAnonymous...	2 ms
✅ TestCreateWithAnonymous...	6 sec
✅ TestCreateWithAnonymous...	3 sec
✅ TestCreateWithAnonymous...	3 sec
✅ TestCreateWithAnonymous...	2 sec
✅ TestCreateWithAnonymous...	3 sec
✅ TestCreateWithAnonymous...	3 sec
✅ TestCreateWithAnonymous...	3 sec
✅ TestDescriptionCannotBeE...	4 sec
✅ TestEditBatchNotes	4 sec
✅ TestGetCreateWithAnonym...	7 ms
✅ TestGetNonExistingBatchRe...	2 ms
✅ TestGetPreviousRatingWillR...	4 ms
✅ TestGetType	3 sec
✅ TestHasRated	3 sec
✅ TestHasRatedRatingsIsNull	3 sec

Test	Duration
✅ TestHelpFAQ	2 ms
✅ TestHelpUsersManual	< 1 ms
✅ TestIndexDoesNotRequireA...	2 ms
✅ TestIndexReturnsAllRatings	9 ms
✅ TestIndexUserCantViewRet...	2 ms
✅ TestIndexWithAnonymous...	2 ms
✅ TestIndexWithNonExistingB...	2 ms
✅ TestInvalidModelStateWillR...	2 ms
✅ TestInvalidModelStateWillR...	3 ms
✅ TestIsBatchOwner	3 sec
✅ TestMeasurementDelete	3 sec
✅ TestMeasurementDeleteNo...	6 sec
✅ TestMeasurementEdit	4 sec
✅ TestMeasurementEditMod...	4 sec
✅ TestMeasurementList	4 sec
✅ TestMeasurementUserCan...	3 sec
✅ TestMeasurementUserCan...	4 sec
✅ TestMeasurmentDetails	4 sec
✅ TestMeasurmentEditPost	3 sec
✅ TestNonExistingBatchRetun...	2 ms
✅ TestNullBatchActionService...	3 sec
✅ TestNullBatchActionWillRet...	5 sec
✅ TestNullBatchNoteServiceT...	3 sec

✅ TestRatingCanHaveComme...	4 sec	
✅ TestRatingCanHaveNullCo...	4 sec	
✅ TestRecipeList	3 sec	
✅ TestRemoveAccount	7 sec	
✅ TestRemoveBatchAction	3 sec	
✅ TestRemoveBatchNotes	5 sec	
✅ TestRemoveMeasurement	4 sec	
✅ TestSummaryLengthShort	3 sec	
✅ TestSummaryLengthShort	3 sec	
✅ TestSummaryLengthShort	3 sec	
✅ TestSummaryLengthShort	4 sec	
✅ TestSummaryTruncate	3 sec	
✅ TestSummaryTruncate	4 sec	
✅ TestSummaryTruncate	3 sec	
✅ TestSummaryTruncate	4 sec	
✅ TestTitleCannotBeEmpty	3 sec	
✅ TestUserCanHaveMultipleR...	6 sec	
✅ TestViewBagPopulated	74 ms	
✅ UserCanEditAccountInform...	3 sec	
✅ UserCanEnterZipToFindBre...	3 sec	
✅ UserLogin_TEST	3 sec	
✅ ValidInputReturnsJson	74 ms	
✅ ValidInputReturnsJson	3 ms	

Sprint 2 Review: Key Functionality

1.1 Improved UI for Viewing Batches

BrewersBuddy   Recipes   Batches   Cellar   Friends

All Batches

My Batches   Shared Batches   Create New

Batch 1 AKA.. Deliciousness

Here is batch one. It smells like malted barley and goodness.

beer   7/7/2013

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1.2   Ability to Have Shared Batches

Shared Batches

| My Batches | Shared Batches | Create New |

Your friends haven't shared any batches yet, check back soon or get some more friends!

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1.3   Batch UI Refinement
1.4   Edit Batch
1.5   Delete Batch
1.6   Rate This Batch
1.7   Get the Average Batch Rating
1.8   Add Notes
1.9   Add Actions
1.10   Add Batch to the Cellar

BrewersBuddy   Recipes   Batches   Cellar   Friends   ❶ Help ▾   👤 Pistorius1 ▾

Batch 1 AKA.. Deliciousness

| **100** Avg Rating | **100** Your Rating |

Information   Edit   Delete   Add to Cellar

Type	Beer
Start Date	7/7/2013 12:59:07 AM
Description	Here is batch one. It smells like malted barley and goodness.

Notes   Add Note
None

Actions   Add Action

Title	Summary	Actions		
Go buy some ingredients	**Get incredients**	View	Edit	Delete

1.11   Add Measurements
1.12   Add Comments
1.13   Back to Batch List

Measurements

Add Measurement

None

Comments

No comments have been added

```
Enter your comments (max 256 characters)
```

Comment

Back to List

View, Edit, Delete Notes
View, Edit, Delete Actions
View, Edit, Delete Measurements

Title	Summary	Actions		
Notes	Notes test	View	Edit	Delete

Actions

Add Action

Title	Summary	Actions		
Go buy some ingredients	Get incredients	View	Edit	Delete

Measurements

Add Measurement

Title	Summary	Measured	Value	Actions		
Measure	Measurements	yes	12.95	View	Edit	Delete

Additional Recipe Content

Edit Recipe Information

RecipeInfo

Name

Test

Description

Recipe for booze

Prep

Prepare the liquor

Process

Add in stuff

Finishing

Cook forever

Costs

344.33

Save

Cellar pages Edit, Delete, View

Done 1

Created from batch: **Batch 1 AKA.. Deliciousness**

Information

[Edit] [Delete]

Type	Bottle
Volume	23 Milliliter
Quantity	1

[Back to List]

Edit Inventory

Name

Done 1

Type

Bottle ▼

Quantity

1

Volume

23

Units

Milliliter ▼

[Save] [Cancel]

Are you sure you want to delete this batch from inventory?

Name	Done 1
Type	Bottle
Volume	23 Milliliter
Quantity	1

Delete   Cancel

FAQ Page

FAQ

1. **How do I register for this site?**
2. **Can I update my account information?**
3. **How do I change my password?**
4. **How do I recover my password?**
5. **How do I logout?**
6. **How do I search for users?**
7. **How do I add friends?**
8. **How do I rate a batch?**
9. **How do I view all of the ratings for a batch?**
10. **How do I comment on a batch?**

Q. How do I register for this site?
A. Click on the Register link in the upper right hand corner or on the Register if you don't have an account.. On this page you will need to enter User name, Password with confirmation, and Email since they are required. Extra information you can enter is First name, Last name, City, State, and Zip. At the bottom of the page click the Register button and you will be registered if there are no issues with your credentials. Issues could be:

    User name is already taken
    Password is not minimum length
    Confirmation password didn't match original password
    Email is already taken

Q. Can I update my account information?

Finding Friends

Find a Friend

Username

First Name

Last Name

Zip Code

Search

© PSU SWENG 500 Team 3

Adding a Friend

| BrewersBuddy | Recipes | Batches | Cellar | Friends | | ⓘ Help ▾ | 👤 Pistorius1 ▾ |

Friend Results

UserName	FirstName	LastName	Email	
jon	Jon	Parise	jlparise@gmail.com	Add Friend

Search again

Username

View Friends

BrewersBuddy   Recipes   Batches   Cellar   Friends   ⊕ Help ▾   👤 Pistorius1 ▾

You seem to be forever alone.

Go search for Users and add them as friends.

Code Samples – Example Functionality – Comment on a Batch

src2\BrewersBuddy.Tests\Controllers\BatchCommentControllerTest.cs	⊻
src2\BrewersBuddy\App_Start\NinjectWebCommon.cs	⊻
src2\BrewersBuddy\BrewersBuddy.csproj	⊻
src2\BrewersBuddy\Content\Site.css	⊻
src2\BrewersBuddy\Controllers\BatchCommentController.cs	⊻
src2\BrewersBuddy\Properties\AssemblyInfo.cs	⊻
src2\BrewersBuddy\Scripts\application.js	⊻
src2\BrewersBuddy\Views\Batch\Details.cshtml	⊻
src2\BrewersBuddy\Views\Batch_CommentPartial.cshtml	new ⊻

old	new	
...	...	@@ -5,6 +5,7 @@
5	5	using NUnit.Framework;
6	6	using System.Web.Mvc;
7	7	using System;
	8	+using System.Security.Principal;
8	9	
9	10	namespace BrewersBuddy.Tests.Controllers
10	11	{
...	...	@@ -77,9 +78,15 @@ public void TestNonExistingBatchRetunsNotFoundResult()
77	78	[Test]
78	79	public void ValidInputReturnsJson()
79	80	{
80		- // Set up the controller
	81	+ var identity = Substitute.For<IIdentity>();
	82	+ identity.Name.Returns("user1");
	83	+
	84	+ var principal = Substitute.For<IPrincipal>();
	85	+ principal.Identity.Returns(identity);
	86	+
81	87	var userService = Substitute.For<IUserService>();
82	88	userService.GetCurrentUserId().Returns(1);
	89	+ userService.GetCurrentUser().Returns(principal);
83	90	
84	91	var batchService = Substitute.For<IBatchService>();
85	92	batchService.Get(1).Returns(new Batch()
...	...	@@ -100,10 +107,10 @@ public void ValidInputReturnsJson()
100	107	Assert.IsNotNull(result);
101	108	
102	109	JsonResult json = result as JsonResult;
103		-
104		- Assert.IsInstanceOf<BatchComment>(json.Data);

src2\BrewersBuddy\App_Start\NinjectWebCommon.cs

```
      old   new
      ...   ...   @@ -60,6 +60,7 @@ private static void RegisterServices(IKernel kernel)
      60    60                kernel.Bind<IRecipeService>().To<RecipeService>();
      61    61                kernel.Bind<IUserService>().To<UserService>();
      62    62                kernel.Bind<IContainerService>().To<ContainerService>();
            63    +           kernel.Bind<IBatchCommentService>().To<BatchCommentSerice>();
      63    64            }
      64    65        }
      65    66    }
```

src2\BrewersBuddy\BrewersBuddy.csproj

```
      old   new
      ...   ...   @@ -572,6 +572,7 @@
      572   572        <Content Include="Views\Account\AddFriend.cshtml" />
      573   573        <Content Include="Views\Account\FriendsList.cshtml" />
      574   574        <Content Include="Views\BatchRating\Index.cshtml" />
            575   +    <Content Include="Views\Batch\_CommentPartial.cshtml" />
      575   576      </ItemGroup>
      576   577      <ItemGroup>
      577   578        <Folder Include="App_Data\" />
```

src2\BrewersBuddy\Content\Site.css

```
      old   new
      ...   ...   @@ -43,6 +43,12 @@
      43    43          font-size: 13px;
      44    44      }
      45    45
            46    +#batch-comments p {
            47    +    background-color: #eee;
```

src2\BrewersBuddy\Controllers\BatchCommentController.cs

```
      old   new
      ...   ...   @@ -54,7 +54,11 @@ public ActionResult Create(BatchComment userComment)
      54    54
      55    55                _commentService.Create(userComment);
      56    56
      57          -               return Json(userComment);
            57    +               return Json(new
            58    +               {
            59    +                   Comment = userComment.Comment,
            60    +                   UserName = _userService.GetCurrentUser().Identity.Name
            61    +               });
      58    62            }
      59    63
      60    64            return new HttpStatusCodeResult(500);
```

src2\BrewersBuddy\Properties\AssemblyInfo.cs

```
      old   new
      ...   ...   @@ -2,6 +2,8 @@
      2     2     using System.Runtime.CompilerServices;
      3     3     using System.Runtime.InteropServices;
      4     4
            5     +[assembly: InternalsVisibleTo("BrewersBuddy.Tests")]
            6     +
      5     7     // General Information about an assembly is controlled through the following
      6     8     // set of attributes. Change these attribute values to modify the information
      7     9     // associated with an assembly.
```

src2\BrewersBuddy\Scripts\application.js

```
old  new
...  ...  @@ -12,4 +12,28 @@
12   12            });
13   13            return false;
14   14        });
     15  +
     16  +    $("#comment-form").submit(function () {
     17  +        var textarea = $("textarea", this);
     18  +        var action = $(this).attr("action");
     19  +
     20  +        $.post(action, $(this).serialize())
     21  +            .done(function (data) {
     22  +                $(textarea).val("");
     23  +                $("#no-comments").hide();
     24  +
     25  +                var template = $("#comment-template");
     26  +
     27  +                var html = template.html()
     28  +                    .replace("{{comment}}", data.Comment)
     29  +                    .replace("{{username}}", data.UserName);
     30  +
     31  +                $("#batch-comments").append(html);
     32  +            })
     33  +            .fail(function (data) {
     34  +                alert("An error occurred");
     35  +            });
     36  +
     37  +        return false;
     38  +    });
15   39  });
16   40  \ No newline at end of file
```

old	new	
...	...	@@ -6,6 +6,21 @@
6	6	
7	7	@section Scripts {
8	8	@Scripts.Render("~/bundles/application")
	9	+
	10	+ <script type="text/javascript">
	11	+ $(function () {
	12	+ var submit = $("#comment-form input[type=submit]");
	13	+
	14	+ $("#comment-form textarea").keyup(function () {
	15	+ var val = $(this).val();
	16	+
	17	+ if (val.length > 0)
	18	+ submit.removeAttr("disabled");
	19	+ else
	20	+ submit.attr("disabled", "disabled");
	21	+ });
	22	+ });
	23	+ </script>
9	24	}
10	25	
11	26	<div class="row-fluid">
...	...	@@ -220,6 +235,9 @@ else
220	235	{
221	236	<p>None</p>
222	237	}
	238	+
	239	+
	240	+@Html.Partial("_CommentPartial", Model)
223	241	
224	242	

src2\BrewersBuddy\Views\Batch_CommentPartial.cshtml   new ⌃

```
old   new
...   ...   @@ -0,0 +1,44 @@
      1    +<h4>Comments</h4>
      2    +
      3    +<div id="batch-comments">
      4    +@if (Model.Comments.Count == 0) {
      5    +    <div class="row" id="no-comments">
      6    +        <div class="span6">
      7    +            No comments have been added
      8    +        </div>
      9    +    </div>
      10   +}
      11   +else {
      12   +    foreach (BrewersBuddy.Models.BatchComment comment in Model.Comments) {
      13   +        <div class="row">
      14   +            <div class="span6">
      15   +                <p>@comment.Comment</p>
      16   +                <div><strong>@comment.User.UserName</strong></div>
      17   +            </div>
      18   +        </div>
      19   +    }
      20   +}
      21   +</div>
      22   +
      23   +<div id="comment-template" style="display: none">
      24   +    <div class="row">
      25   +        <div class="span6">
      26   +            <p>{{comment}}</p>
      27   +            <div><strong>{{username}}</strong></div>
      28   +        </div>
      29   +    </div>
```

Example Code for Batch Rating

```
old   new
...   ...   @@ -40,10 +40,9 @@ public ActionResult Create(int batchId = 0)
40    40                if (batch == null)
41    41                    return new HttpStatusCodeResult(500);
42    42
43          -            // You can only rate once!
44          -            BatchRating previousRating = _ratingService.GetUserRatingForBatch(batchId, userId);
45          -            if (previousRating != null)
46          -                return new HttpNotFoundResult();
      43   +            bool canRate = batch.CanRate(userId);
      44   +            if (!canRate)
      45   +                return new HttpStatusCodeResult(403, "You can only rate a batch once");
47    46
48    47                ViewBag.BatchId = batchId;
49    48                ViewBag.BatchName = batch.Name;
...   ...   @@ -71,12 +70,12 @@ public ActionResult Create(BatchRating userRating)
71    70                {
72    71                    Batch batch = _batchService.Get(userRating.BatchId);
73    72                    if (batch == null)
74          -                    return new HttpStatusCodeResult(500);
75          -
76          -                BatchRating previousRating = _ratingService.GetUserRatingForBatch(userRating.Ba
77          -                if (previousRating != null)
78    73                        return new HttpNotFoundResult();
79    74
      75   +                bool canRate = batch.CanRate(userId);
      76   +                if (!canRate)
      77   +                    return new HttpStatusCodeResult(403, "You can only rate a batch once");
      78   +
80    79                    userRating.UserId = userId;
81    80
82    81                    _ratingService.Create(userRating);
```

More Recipe Content

More Content	github
src2\BrewersBuddy\BrewersBuddy.csproj	≫
src2\BrewersBuddy\Migrations\201307290117266_New-Recipe-Columns.Designer.cs	new ≫
src2\BrewersBuddy\Migrations\201307290117266_New-Recipe-Columns.cs	new ≫
src2\BrewersBuddy\Migrations\201307290117266_New-Recipe-Columns.resx	new ≫
src2\BrewersBuddy\Models\Recipe.cs	≫
src2\BrewersBuddy\Views\Recipe\Create.cshtml	≫
src2\BrewersBuddy\Views\Recipe\Details.cshtml	≫
src2\BrewersBuddy\Views\Recipe\Edit.cshtml	≫

```
old   new
...   ...   @@ -372,6 +372,10 @@
372   372         <Compile Include="Migrations\201307282355130_fis-something.Designer.cs">
373   373           <DependentUpon>201307282355130_fis-something.cs</DependentUpon>
374   374         </Compile>
      375  +      <Compile Include="Migrations\201307290117266_New-Recipe-Columns.cs" />
      376  +      <Compile Include="Migrations\201307290117266_New-Recipe-Columns.Designer.cs">
      377  +        <DependentUpon>201307290117266_New-Recipe-Columns.cs</DependentUpon>
      378  +      </Compile>
375   379         <Compile Include="Migrations\Configuration.cs" />
376   380         <Compile Include="Models\AccountModels.cs" />
377   381         <Compile Include="Models\ActionType.cs">
...   ...   @@ -726,6 +730,9 @@
726   730         <EmbeddedResource Include="Migrations\201307282355130_fis-something.resx">
727   731           <DependentUpon>201307282355130_fis-something.cs</DependentUpon>
728   732         </EmbeddedResource>
      733  +      <EmbeddedResource Include="Migrations\201307290117266_New-Recipe-Columns.resx">
      734  +        <DependentUpon>201307290117266_New-Recipe-Columns.cs</DependentUpon>
      735  +      </EmbeddedResource>
729   736       </ItemGroup>
730   737       <PropertyGroup>
731   738         <VisualStudioVersion Condition="'$(VisualStudioVersion)' == ''">10.0</VisualStudioVersion>
```

src2\BrewersBuddy\Migrations\201307290117266_New-Recipe-Columns.Designer.cs   new ⌃

```
old   new
...   ...   @@ -0,0 +1,27 @@
      1   +// <auto-generated />
      2   +namespace BrewersBuddy.Migrations
      3   +{
      4   +    using System.Data.Entity.Migrations;
      5   +    using System.Data.Entity.Migrations.Infrastructure;
      6   +    using System.Resources;
      7   +
      8   +    public sealed partial class NewRecipeColumns : IMigrationMetadata
      9   +    {
      10  +        private readonly ResourceManager Resources = new ResourceManager(typeof(NewRecipeColumn
      11  +
      12  +        string IMigrationMetadata.Id
      13  +        {
      14  +            get { return "201307290117266_New-Recipe-Columns"; }
      15  +        }
      16  +
      17  +        string IMigrationMetadata.Source
      18  +        {
      19  +            get { return null; }
      20  +        }
      21  +
      22  +        string IMigrationMetadata.Target
      23  +        {
      24  +            get { return Resources.GetString("Target"); }
      25  +        }
      26  +    }
      27  +}
```

src2\BrewersBuddy\Models\Recipe.cs

```
old   new
...   ...   @@ -15,10 +15,12 @@ public class Recipe
15    15            public string Description { get; set; }
16    16            public DateTime AddDate { get; set; }
17    17            public int OwnerId { get; set; }
18        -        public double Cost { get; set; }
19        -        public string HowtoMakeit { get; set; }
      18   +        public string Costs { get; set; }
      19   +        public string Prep { get; set; }
      20   +        public string Process { get; set; }
      21   +        public string Finishing { get; set; }
20    22
21        -                public virtual ICollection<Ingredient> Ingredients { get; set; }
      23   +        public virtual ICollection<Ingredient> Ingredients { get; set; }
22    24        }
23        -
      25   +
24    26    }
25    27    \ No newline at end of file
```

src2\BrewersBuddy\Views\Recipe\Create.cshtml

```
old   new
...   ...   @@ -29,11 +29,33 @@
29    29            @Html.ValidationMessageFor(model => model.Description)
30    30        </div>
31    31            <div class="editor-label">
32        -        @Html.LabelFor(model => model.HowtoMakeit)
      32   +        @Html.LabelFor(model => model.Prep)
33    33        </div>
34    34        <div class="editor-field">
35        -        @Html.TextArea("HowtoMakeit", new { rows=10, columns=40 })
```

src2\BrewersBuddy\Views\Recipe\Details.cshtml

old	new	
...	...	@@ -17,10 +17,18 @@
17	17	@Html.DisplayNameFor(model => model.Description)
18	18	</th>
19	19	<th width="30%"class="display-label">
20		- @Html.DisplayNameFor(model => model.HowtoMakeit)
	20	+ @Html.DisplayNameFor(model => model.Prep)
21	21	</th>
22		- <th width="30%" class="display-label">
23		- @Html.DisplayNameFor(model => model.AddDate)
	22	+ <th width="30%"class="display-label">
	23	+ @Html.DisplayNameFor(model => model.Process)
	24	+ </th>
	25	+ <th width="30%"class="display-label">
	26	+ @Html.DisplayNameFor(model => model.Finishing)
	27	+ </th>
	28	+ <th width="30%"class="display-label">
	29	+ @Html.DisplayNameFor(model => model.Costs)
	30	+ </th>
	31	+ <th width="30%" class="display-label"> @Html.DisplayNameFor(model => model.AddDate)
24	32	</th>
25	33	</tr>
26	34	
...	...	@@ -32,7 +40,16 @@
32	40	@Html.DisplayFor(model => model.Description)
33	41	</td>
34	42	<td align="center">
35		- @Html.DisplayTextFor(model => model.HowtoMakeit)
	43	+ @Html.DisplayNameFor(model => model.Prep)
	44	+ </td>
	45	+ <td align="center">
	46	+ @Html.DisplayNameFor(model => model.Process)

src2\BrewersBuddy\Views\Recipe\Edit.cshtml

old	new	
...	...	@@ -41,12 +41,33 @@
41	41	</div>

```
@@ -41,12 +41,33 @@
41   41              </div>
42   42
43   43          <div class="editor-label">
44       -            @Html.LabelFor(model => model.HowtoMakeit)
     44  +            @Html.LabelFor(model => model.Prep)
45   45          </div>
46   46          <div class="editor-field">
47       -            @Html.TextAreaFor(model => model.HowtoMakeit, new { rows=10, columns=40 })
48       -            @Html.ValidationMessageFor(model => model.HowtoMakeit)
     47  +            @Html.TextAreaFor(model => model.Prep, new { rows=10, columns=40 })
     48  +            @Html.ValidationMessageFor(model => model.Prep)
49   49          </div>
     50  +                <div class="editor-label">
     51  +            @Html.LabelFor(model => model.Process)
     52  +        </div>
     53  +        <div class="editor-field">
     54  +            @Html.TextAreaFor(model => model.Process, new { rows=10, columns=40 })
     55  +            @Html.ValidationMessageFor(model => model.Process)
     56  +        </div>
     57  +                <div class="editor-label">
     58  +            @Html.LabelFor(model => model.Finishing)
     59  +        </div>
     60  +        <div class="editor-field">
     61  +            @Html.TextAreaFor(model => model.Finishing, new { rows=10, columns=40 })
     62  +            @Html.ValidationMessageFor(model => model.Finishing)
     63  +        </div>
     64  +                    <div class="editor-label">
     65  +            @Html.LabelFor(model => model.Costs)
     66  +        </div>
     67  +        <div class="editor-field">
```

2. Retrospective

What Went Well

1. This was our most productive sprint ever, we got more functionality completed this sprint than we have in any other.
2. Our communication was better, we generally knew what everyone was working on and had some kind of plan.
3. We're learning how to fix problems faster, when the site wet down we were able to fix it faster.
4. Our unit test coverage has greatly improved. Also all our tests are no passing.
5. The weekly meetings (minus this week) really helped to improve team focus and prioritization.
6. Everyone was pretty much a self-starter in this past sprint and really jumped in head first with a focus on getting things done. The separation of duties/roles based on experience and comfort really seemed to help us make progress on areas where we might have otherwise lost sight of.
7. We are continuing to learn more about the framework and technology. Even after 15 weeks we are still learning.

What could be improved

1. We still don't understand this framework well, often it confuses us and slows us down. I think Git was a great choice of tools for this project, but we should have focused more on basic training as a group up front to avoid the issues we ran into down the line.
2. We often blocked each other by breaking the system with our changes. More testing prior to commit could have helped with this issue.
3. We're running into lots of little problems, when they add up they can be difficult to overcome.
4. Communication was much better than past sprints, but not perfect. For me, I think it really comes down to Angel and being able to follow threads, which is really difficult to do via the email notifications and then trying make sense of everything on the website.