Intro





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Food Planner DS301E14

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Quality Assurance

Unit Testing

Usability Testing

D. C. . P. .

- Causes
- ▶ Problem Statement
- ► XAML
- Code Exammples
- Unit Testing
- Usability Test
- ► Reflection

Problem statement & Information Gathering





Problem statement

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How can a software system assist the consumer in planning and managing a meal plan to minimize food waste and simultaneously be flexible enough to support their planning, shopping and cooking habits?



Information Gathering

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Quality Assurance





Quality assurance

Fulfilling the semester description

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Information Gathering

Quality Assurance

 Quality assurance (in terms of program testing and results) and usability evaluation and results), including arguments for coverage and validity (Semester description)

- Program testing = Unit testing
- ► Usability evaluation = IDA (report section 11)

Unit Testing





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► Initial stage of program testing

- Isolate smallest testable code
- ► Confirm if the unit behaves correctly

Unit Testina

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- Classes e.g. User, Ingredient or Recipe
 - Testing their properties or methods
- List of candidates
 - MODELS
 - Graylist
 - Ingredient
 - InventoryIngredient*
 - InventoryListCombinedByQuantity
 - LastMeal
 - PublicQuerys
 - Recipe
 - RecipeIngredient
 - SearchResults
 - ShoppingClass
 - ShoppingListIngredient
 - User
 - VIEWMODELS
 - Inventory View Model
 - MealPlanViewModel
- http://cs.aau.dk Doging Coarob Vious Model

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- a ...

[TestMethod]
public void PurchaseDate_AutoSetConstructor_SetTof
// arrange

Ingredient testIngredient = new Ingredient();
DateTime expectedPurchaseDate = DateTime.Now;

//act - The property is set automaticly in the co InventoryIngredient testInventoryIngredient = new //assert

Assert. Are Equal (expected Purchase Date, test Invento

Usability Testing





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Reflection

► 3 persons

- ▶ Video camera
- ► Screen recorder
- ▶ Follow-up questions



IDA outcome

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Usability Testing

Critical problems

- Scheduled meal page, update button
- Deleting meal
- Automatical or manual update
- Serious problems
 - Planning meal the wrong way
 - Top bar in recipe screen
 - Changing the number of days to shop for
- Cosmetic problems
 - Dividing of setting screen
 - Adding ingredient to lists
 - Too specific rating



Usability notes

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Waterfall vs Iterative

Reflection





missing features

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Optimization

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Evaluation of design

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Requirements

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