

Team V - How Not To Kill Your Dog

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Level 3 Project — 18 March 2013

Chapter 1

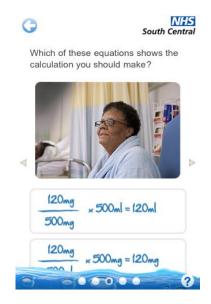
Requirements

1.1 Investigation Of Existing Artifacts

There are a few similar tools and learning resources available for vet students. This section discusses some of the current tools and a few tools which our client, Fiona Dowell, showed us in order to give us an idea of what she wanted for the application.

1.1.1 NHS Adult Drug Calculations

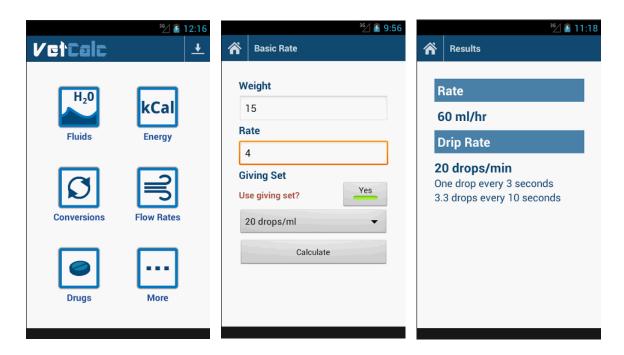




The NHS Adult Drug Calculations, a smartphone based learning tool, allows the user to browse through different topics. Within each topic, there are a few slides providing the user with the information and theory, and then has "Check your knowledge" slides containing multiple choice questions to test the user on what they have learned. The interface is very simple and easy to use. The main menu allows the user to simply select which topic they want to go through. Within each topic, there are arrows on each page which allow the user to navigate back and forward between the pages and there are breadcrumbs on the bottom of each page indicating how far through the topic

they are. There is also an arrow at the top left-hand corner to allow the user to return to the main menu at any point. One feature which is particularly useful to new users is the help button, which informs the user how to use the application. This application is very similar to the application which our client would like for the vet students.

1.1.2 Vet Calculator



The Vet Calculator, an android based tool, allows the user to enter the necessary details - weight, dose, formulation, volume of fluid, etc. and the produces the result for the user. The interface for the vet calculator is very simple and easy to use. The menu is a simple grid-layout of different topics and sections for drug calculations. Within each topic, the user has to simply enter the necessary details into the clearly labelled text boxes and click 'Calculate' in order to get the result of the calculation. On each page, there is a home button which will esily allow the user to return to the main menu at any point. This application is useful for users who simply need to get the results of a calculation. However, out client wants an application that can teach the students how to carry out the calculations and not simply produce the result for them as they will need to know how to carry out these calculations throughout their career.

1.1.3 Bitesize

ROSS TO DO!

1.2 Client Interview

The project was proposed by Dr Fiona Dowell, a senior lecturer at the University of Glasgow School of Veterinary Medicine. Initially, we met with Fiona at the beginning of October in order to gain

more informatoin about the requirements and specification for the application to ensure that we produced an application relevant to what the client wanted.

Our initial requirements for the vet application were :

- A learning application for vet students, providing step-by-step tutorials for different sections of the vet course.
- Simple example questions within each topic to test how much the user is learning about that specific section.
- A large assessment at the end of all sections to test users on all the content within the application.

After our initial meeting with the client, we thought that it would be useful for the content within the application to be able to be updated - if the content changed, to fix errors or update to include different questions. We presented this idea to the client and she agreed that this would be a useful as it might be good to be able to update after some user feedback. The functional requirements were then updated to include an administration system.

The administration system allows admin staff to upload and remove topics. It also allows the content of each topic to be updated, slides and questions can be added and removed.

1.3 Functional Requirements

1.3.1 Requirements Table

Student

Id	Requirement
SR1	View Topic
SR2	View Slides
SR3	View Questions
SR4	Answer Questions

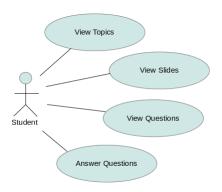
User Admin

Id	Requirement
UAR1	Add User
UAR2	Delete User
UAR3	Set Permissions

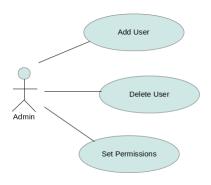
Content Admin

Id	Requirement
CAR1	Add Topic
CAR2	Edit Topic
CAR3	Delete Topic
CAR4	Add Slide
CAR5	Delete Slide
CAR6	Add Questions
CAR7	Edit Questions
CAR8	Delete Questions

1.3.2 Use Case Diagrams

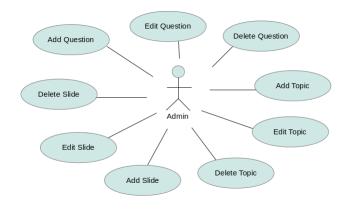


Student



User Admin

FIX THIS TO REMOVE EDIT SLIDE



Content Admin

1.3.3 Student Requirement Details

SR1: View Topics

Description: Users must be able to view the different topics in the application.

Rationale: The students must be able to view the different topics in the application. This will allow

them to navigate through the different topics as the progress through the slides and topics.

Priority: Must Have

SR2: View Slides

Description: Users must be able to view the different slides in the application.

Rationale: The students must be able to view the different slides in the learning application. The student will be able to navigate back and forward through the different slides of a topic and read through the content on each.

Priority: Must Have

SR3: View Questions

Description: Users must be able to view the different questions in the application.

Rationale: The student must be able to view the questions in the application. This will allow the

students to go through the different questions related to the information given in the slides.

Priority: Must Have

SR4: Answer Questions

Description: Users must be able to answer the questions in the application.

Rationale: The student must be able to answer the questions in the learning application. This will allow the students to test see how much they learned from the information provided in the slides.

Priority: Must Have **Dependencies**: SR3

1.3.4 User Admin Requirements Details

UAR1: Add User

Description: The admin user must be able to add a user.

Rationale: The admin users must be able to create a new user account to allow other users to use

the application and have access to the content management.

Priority: Must have

UAR2: Delete User

Description: The admin user should be able to delete a user.

Rationale: The admin user should be able to remove users from the system, meaning that they will

no longer be able to login or have access to any of the content management.

Priority: Should have **Dependencies**: UAR1

UAR3: Set Permission

Description: The admin user must be able to set user permissions.

Rationale: The admin user must be able to set user permissions in order to provide users with the

appropriate access. **Priority**: Must have **Dependencies**: UAR1

1.3.5 Content Admin Requirements Details

CAR1: Add Topic

Description: The admin users must be able to add a new topic.

Rationale: The admin user must be able to create a new topic within the admin site.

Priority: Must have

CAR2: Edit Topic

Description: The admin users should be able to edit a current topic.

Rationale: The admin user should be able to edit a current topic for the application. This will allow

the admin user to update the topic if it changes

Priority: Should Have **Dependencies**: CAR1

CAR3: Delete Topic

Description: The admin users must be able to delete a current topic.

Rationale: The admin users must be able to remove a current topic from the application. This will

mean that the topic will no longer be available within the application.

Priority: Must Have **Dependencies**: CAR1

CAR4: Add Slide

Description: The admin users must be able to add a new slide.

Rationale: The admin users must be able to add new slides to the application. This will provide the

content for the students to browse through.

Priority: Must Have

CA56: Delete Slide

Description: The admin users must be able to delete a slide.

Rationale: The admin users must be able to remove a slide from the application. This means that

selected slide will no longer be available in the application.

Priority: Must have **Dependencies**: CAR4

CAR6: Add Question

Description: The admin users must be able to add questions to the application.

Rationale: The admin users must be able to create new questions and add them to the application,

allowing the students to test how much they have learned.

Priority: Must Have

CAR7: Edit Question

Description: The admin users should be able to edit questions.

Rationale: The admin users should be able to edit questions. The users should be able to update

the questions to keep the questions up to date or to fix error.

Priority: Should Have **Dependencies**: CAR6

CAR8: Delete Question

Description: The admin user must be able to delete questions.

Rationale: The admin user must be able to remove questions from the application. This will mean

that the question is no longer available on the application for the students to view.

Priority: Must have **Dependencies**: CAR6

1.4 Non-Functional Requirements