11/3/2017

Finn Turnbull

UNDEE & ANGUS COLLEGE

Inventory Management

Stage 1 – Planning

Contents

[Interpretation of client brief 2](#_Toc494440699)

[Aims and objectives 2](#_Toc494440700)

[Similar systems 2](#_Toc494440701)

[project requirements 2](#_Toc494440702)

[Functional 2](#_Toc494440703)

[non-functional 3](#_Toc494440704)

[Resources 3](#_Toc494440705)

[hardware 3](#_Toc494440706)

[software 3](#_Toc494440707)

[diagrams 4](#_Toc494440708)

[Use case 4](#_Toc494440709)

[class 4](#_Toc494440710)

[activity 4](#_Toc494440711)

[data binding 4](#_Toc494440712)

[user interface design 4](#_Toc494440713)

[wireframes 4](#_Toc494440714)

[erd 4](#_Toc494440715)

[Normalization 4](#_Toc494440716)

[sample table data 4](#_Toc494440717)

[project timeline 4](#_Toc494440718)

[information sources and references 4](#_Toc494440719)

# Interpretation of client brief

The client, a brewery and distillery who primarily produce gin, whisky and beer wish to upgrade the system which they use to keep track of stock.

From the moment the liquid is produced it must be traced as it is bottled, packaged and readied for sale.  
Currently this is done inefficiently, using multiple systems – some of which use paper, others electronic.

Thus the client wishes to streamline the system to use a single system that staff can update and view easily from anywhere in the workplace.

# Aims and objectives

The main aim is to securely track gin, whisky and beer from production to sale.

This is important for the client, both so that they can keep track of what is in stock, how much there is, and how soon it can be sold, but also to keep track of the duty being paid.  
Proper records must be kept in order to prove to HMRC that tax is being paid on each and every bottle necessary.

# Similar systems

# project requirements

Functional requirements specify what must be achieved for the system to be considered successfully completed.

Non-functional requirements are optional, and can be added either during the original timeline in spare time, or farther down the road when revisiting development.

## Functional

* Input liquid in volume for whisky, gin and beer,
* For all stock the following must be stored:
  + Name of the gin, whisky or beer type
  + Gyle number
  + The number of bottles
  + Bottle size
  + ABV
  + Location (ie. The bond, warehouse, or cage)
  + Duty stamp range
  + Duty paid or suspended
  + Labelled (Y/N)
* For whisky:
  + Cask type (ie. The wood used)
  + Time spent maturing
* For beer:
  + Storage container used (ie. Pin, firkin, keg, or bottle)
  + Best before date
* Output stock as sales, either as bulk orders or individually

## non-functional

* A login system to ensure only employees can access potentially sensitive data,
* Track the supply and use of the vast array of other stock required for production and packaging such as:
  + Casks
  + Bottles
  + Boxes
  + Labels
  + Caps, corks and swing-tops
* Track stock stored in an onsite shop

# Resources

This is the list of hardware and software I will use during development of the system.

To run and use the system a PC or laptop that can run Windows 7 or later will suffice, along with standard peripherals such as a mouse and keyboard to enter data.  
A touch screen would not be optimal, but should still function.

Development of a front end for smartphones and tablets would be useful but shall not be undertaken in this iteration due to time constraints.

## hardware

A desktop computer provided by D&A College with the following specification:

* Operating system: Windows 7 Professional 64Bit
* Processor: Intel Core i7-4790 @ 3.6GHz

My personal desktop computer with the following specification:

* Operating system: Windows 10 Education 64Bit
* Processor: AMD Ryzen 5 1600 @ 3.2GHz

In both cases a keyboard and mouse are used as input.

## software

* Word 2016
* Visio 2016
* Notepad
* Chrome
* Windows Explorer
* Notepad++
* NetBeans
* Visual Studio

# diagrams

## Use case

See what Ed thinks?

## class

Work on tables first

## activity

Done

## data binding

Research

# user interface design

## wireframes

# erd

# Normalization

# sample table data

# project timeline

# information sources and references