

# X4 First Year Team Project

## "The Money Thing" Application

Team X4

The University of Manchester

December 9, 2009

**mt**

The **MoneyThing**



Start  
Introduction  
Application Features  
Accessibility & Design  
Legal And Ethical Matters  
Comparisons & Future Expansion  
The End  
Questions and Answers

The Concept  
Why this Application  
The research

## Introduction to the application

Introducing Jamie Griffin. Jamie will explain the idea behind concept



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Why this Application  
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# The Concept

- Money Management Tool
- Designed with Students in mind
- Simplicity
- Accessible



# Why This Application

- Relevant
- Has a practical use
- Scope
- Future Development Possibilities



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# Research

- Student Feedback
- Questionnaire (Shell Script)
- Similar Applications available



# Karl Sutt

Introducing Karl Sutt. Karl will present and explain the application features.



## Summary of the Features

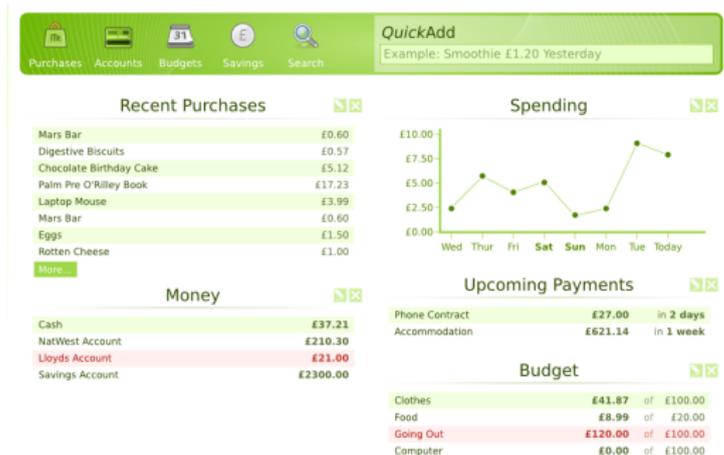
- Landing Page
- Budgeting, Accounts, Categorisation
- Reminders
- Email Updates
- Quick Add Tool Bar
- Dynamic Graphs



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Summary of the Features  
The Landing Page  
Budgeting, Accounts, Categorisation  
Reminders  
Email updates  
Quick Add/Update Feature  
Dynamic Graphs

# The landing Page



The Landing Page with customisable segments of data



# Budgeting, Accounts, Categorisation

## Upcoming Payments



Phone Contract	<b>£27.00</b>	in <b>2 days</b>
Accommodation	<b>£621.14</b>	in <b>1 week</b>

## Budget



Clothes	<b>£41.87</b>	of £100.00
Food	<b>£8.99</b>	of £20.00
<b>Going Out</b>	<b>£120.00</b>	of <b>£100.00</b>
Computer	<b>£0.00</b>	of £100.00

Options to enable the user to manage their budget



## Reminders



**Reminders are  
sent so important  
dates aren't  
forgotten**



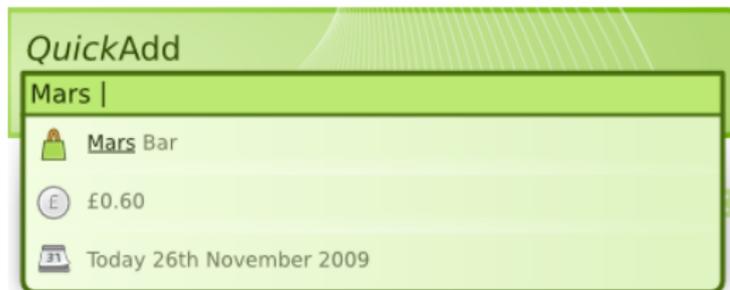
# Email Updates



**Regular Email  
updates**



## Quick Add/Update Feature



**A very convenient  
update feature**



# Dynamic Graphs and Charts



**Clear diagrams  
that provide a  
great visual guide**



## Accessibility & Design

Introducing Jonny Heathcote. Jonny will now demonstrate  
The Appearance & Design aspect.



# Overview

## Summary

- Clean Design
- A look at some screenshots
- Accessibility



# The Welcome Screen

**Money management made easy.**

- Super-simple interface
- Email alerts
- Add purchases from your phone
- No need to be an accountant

**Sign up**

**Log In**

Username  
Password  
 Remember Me  
**Log in** [I've Forgotten My Password](#)

Date	Description	Category	Amnt.	Balance	Account
Nov				£1013.29	
20th Nov 2009	Hans Bar	Food	£9.00	£1013.29	Cash
25th Nov 2009	Digestive Biscuits	Food	£0.57	£1012.89	Cash
Nov					
18th Nov 2009	Chocolate Birthday Cake	Food	£5.12	£1012.46	Halfheart Account
Nov					
17th Nov 2009	Palm-Pre O'Riley Book	Books	£17.23	£1021.58	Lloyds Account
18th Nov 2009	Laptop Mouse	Computer	£3.99	£1030.81	Lloyds Account
19th Nov 2009	Hans Bar	Food	£9.00	£1040.30	Cash
19th Nov 2009	Eggs	Food	£1.56	£1043.50	Halfheart Account
Nov					
20th Oct 2009	Butter Cheese	Food	£1.00	£1044.01	Halfheart Account
20th Oct 2009	Withdraw Cash	Transfer	£20.86	£1063.00	Cash
20th Oct 2009	Withdraw Cash	Transfer	£20.00	£1029.30	Lloyds Account
22th Oct 2009	Student Loans	Food	£2049.86	£1049.00	Lloyds Account
23th Oct 2009	Birthday Gifts	Food	£45.86	£45.00	Halfheart Account

**Spending**

£10.00  
£7.50  
£5.00  
£2.50  
£0.00

Wed Thur Fri Sat Sun Mon Tue Today

Ullamcorper turpis. Proin posuere suscipit interdum. Curabitur ac velit quis eros sollicitudin venenatis.

Ultricies vehicula. Fusce sem diam, imperdiet eget auctor vel, dignissim nec lorem. Phasellus fringilla egestas velit nec ultricies. Integer eget orci quam. Aliquam pellentesque, risus id egestas tincidunt, neque dolor ornare tortor, placerat laoreet odio massa id velit. Nunc at felis urna, ac luctus mi. Vivamus sagittis rutrum lectus vel lobortis.





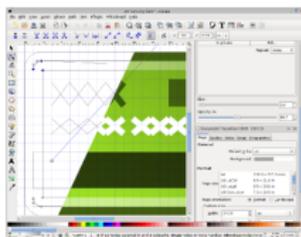
# The Tool Bar



# The Tool Bar



## Icons



tango!



# Viewing Transactions

**mt The MoneyThing** Money Options Help mosslabser log out

SHOW: Everything Income Payments Search

**FILTER BY ACCOUNT**  
 Any  
 Cash  
 Natwest Account  
 Lloyds Account

**FILTER BY CATEGORY**  
 Any  
 Food  
 Going Out  
 Computer  
 Transfers

Date	Description	Category	Ammt.	Balance	Account
<b>NEW</b>					
<input type="text" value="date"/>	<input type="text" value="description"/>	<input type="text" value="category"/>	<input type="text" value="ammt."/>	£1015.29	<input type="text" value="account"/>
<b>TODAY</b>					
25th Nov 2009	Mars Bar	Food	£0.60	£1015.29	Cash
25th Nov 2009	Digestive Biscuits	Food	£0.57	£1015.89	Cash
<b>YESTERDAY</b>					
24th Nov 2009	Chocolate Birthday Cake	Food	£5.12	£1016.46	NatWest Account
<b>LAST WEEK</b>					
17th Nov 2009	Palm Pre O'Riley Book	Books	£17.23	£1021.58	Lloyds Account
16th Nov 2009	Laptop Mouse	Computer	£3.99	£1038.81	Lloyds Account
15th Nov 2009	Mars Bar	Food	£0.60	£1042.90	Cash
15th Nov 2009	Eggs	Food	£1.50	£1043.50	NatWest Account
<b>OCTOBER</b>					
29th Oct 2009	Rotten Cheese	Food	£1.00	£1044.00	NatWest Account
25th Oct 2009	<b>Withdraw Cash</b>	<b>Transfer</b>	<b>£20.00</b>	<b>£1045.00</b>	<b>Cash</b>
25th Oct 2009	Withdraw Cash	Transfer	£20.00	£1025.00	Lloyds Account
22th Oct 2009	<b>Student Loan</b>	<b>Food</b>	<b>£1000.00</b>	<b>£1045.00</b>	<b>Lloyds Account</b>
21th Oct 2009	<b>Birthday Gifts</b>	<b>Food</b>	<b>£45.00</b>	<b>£45.00</b>	<b>NatWest Account</b>

[Load More](#)



# Eleni Georghiades

Introducing Eleni Georghiades. Eleni will now Talk us through the Legal & Ethical issues.



# Summary

- Secure Network Connections
- Secure Data Storage
- Privacy Policy



## Sensitive Data



*Sensitive* user data being on the server, such as financial data and personal information.



# Secure Data Storage

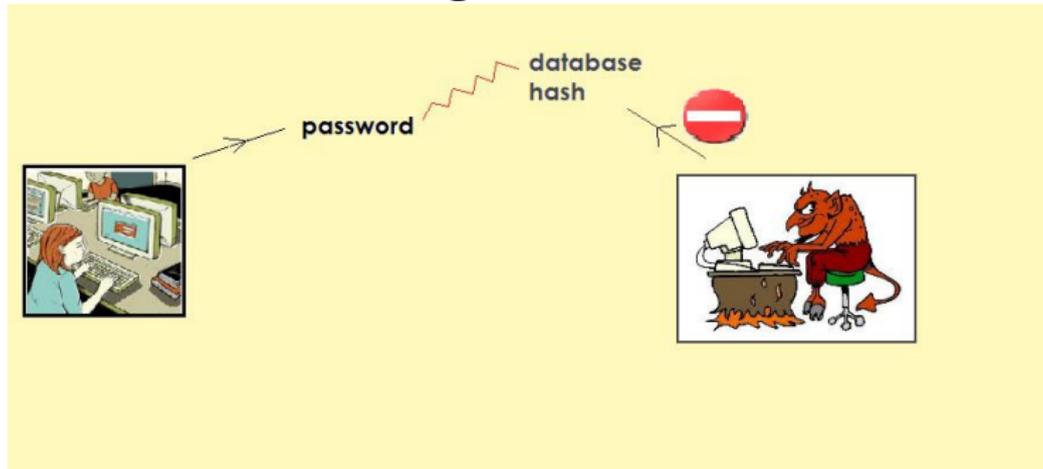


*Securing Data* was a critical part of the design. Various strategies implemented to ensure data is stored in a secure environment.



# Password Hashing

Passwords are stored using an MD5 hash for added security



# Data Protection Act



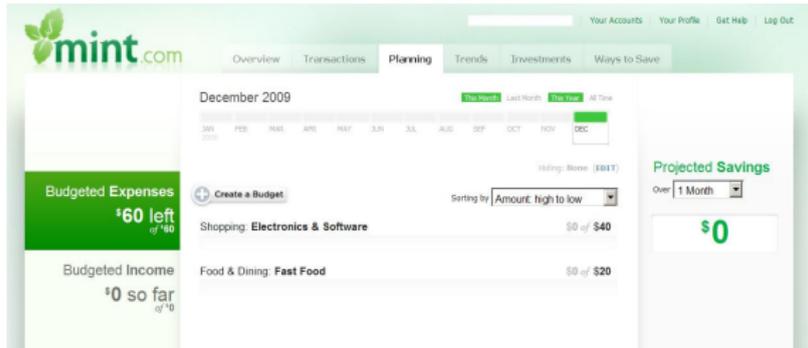
- Data stored will be used for the purpose specified
- Data will be used within the constraints of the Data Protection Act
- Data won't be tampered with in any way



## Matt Dixon

Introducing Matthew Dixon. To finish, Matthew will speak about possible future expansion and compare The MoneyThing with other systems.

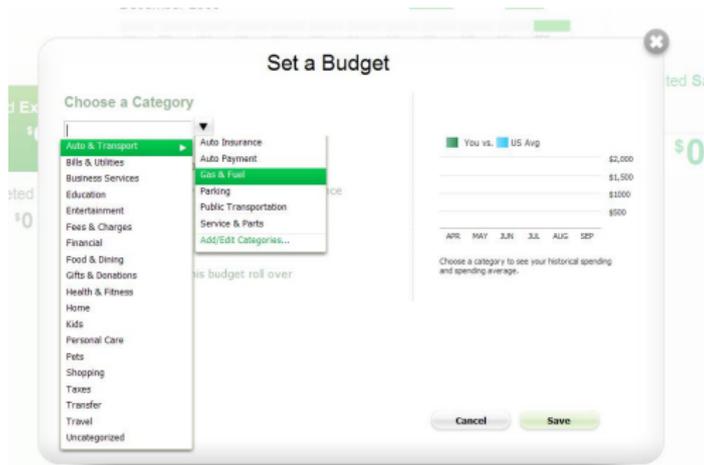




- Must enter banking details. Security? No Choice!
- Currency must be in \$USD



# Comparisons



- Easy to use
- Simple layout



# Currency Conversion

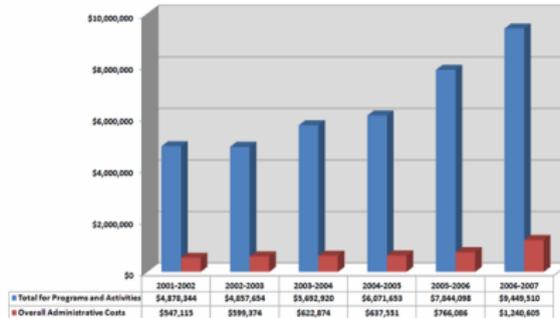
The screenshot shows a web application titled "Universal Currency Converter" with the subtitle "Using live [mid-market](#) rates". The interface includes a "Convert:" section with an input field containing "1" and the label "Enter an amount". To the right, there are two dropdown menus for selecting currencies. The first dropdown, labeled "From this currency:", has "United Kingdom Pounds - GBP" selected. The second dropdown, labeled "To this currency:", has "Euro - EUR" selected. A "Go!" button is positioned to the right of the second dropdown. Below the dropdowns, there are links for "More currencies" and "License our Data Free rates by e-mail Put this tool on your site for free".

Currency conversion may be difficult to implement:

- Exchange rate is constantly changing
- Need to save new currency weighting to the database regularly



## More Advanced Graphing



Drawing graphs to the screen:

- Javascript?
- Server-Side (e.g. PHP)?
- Flash?



## Summary of Presentation

- About the Project
- Features
- Design and Appearance
- Security
- Legal and Ethics
- Future Development



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## Questions & Feedback

End of presentation. We will be happy to answer any questions.  
Thank you for your time.

