

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



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

The Concept

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



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

Why This Application

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



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

Research

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



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

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

Karl Sutt

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



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

Summary of the Features

- The Landing Page
- Budgeting, Accounts, Categorisation
- Reminders
- Email updates
- Quick Add/Update Feature
- Dynamic Graphs

Summary of the Features

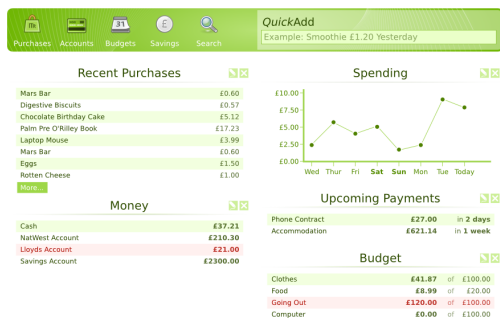
- Landing Page
- Budgeting, Accounts, Categorisation
- Reminders
- Email Updates
- Quick Add Tool Bar
- Dynamic Graphs



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

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



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

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

Budgeting, Accounts, Categorisation

Upcoming Payments



Phone Contract	£27.00	in 2 days
Accommodation	£621.14	in 1 week

Budget



Clothes	£41.87	of £100.00
Food	£8.99	of £20.00
Going Out	£120.00	of £100.00
Computer	£0.00	of £100.00

Options to enable the user to manage their budget



Reminders



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



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

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

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.



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

Overview

- The Welcome Screen
- The Summary Screen
- The Tool Bar
- The Tool Bar
- Icons
- Viewing Transactions

Overview

Summary

- Clean Design
- A look at some screenshots
- Accessibility



The Welcome Screen

mt The MoneyThing Money Options Help mossblaser log out

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

Remember Me

Log in I've Forgotten My Password

Date	Description	Category	Amnt.	Balance	Account
Total					
25th Nov 2009	Mars Bar	Food	£0.60	£309.29	Cash
25th Nov 2009	Digestive Biscuits	Food	£0.57	£308.89	Cash
Withdrawal					
24th Nov 2009	Chocolate Birthday Cake	Food	£5.12	£303.46	NorthWest Account
Loan					
17th Nov 2009	Point Five OilBibley Book	Books	£17.23	£320.58	Lloyds Account
16th Nov 2009	Laptop Mouse	Computer	£3.99	£306.61	Lloyds Account
15th Nov 2009	Mars Bar	Food	£0.60	£304.30	Cash
15th Nov 2009	Eggs	Food	£1.50	£304.50	NorthWest Account
Deposit					
26th Oct 2009	Rotton Cheese	Food	£1.00	£304.00	NorthWest Account
25th Oct 2009	Withdrawal Cash	Transfer	£20.80	£1045.00	Cash
25th Oct 2009	Withdrawal Cash	Transfer	£20.00	£1025.00	Lloyds Account
22th Oct 2009	Student Loan	Food	£3000.00	£1045.00	Lloyds Account
21th Oct 2009	Birthday Gifts	Food	£45.00	£45.00	NorthWest Account

Spending

£10.00
£7.50
£5.00
£2.50
£0.00

Wed Thur Fri Sat Sun Mon Tue Today

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 scintilla rutrum lectus



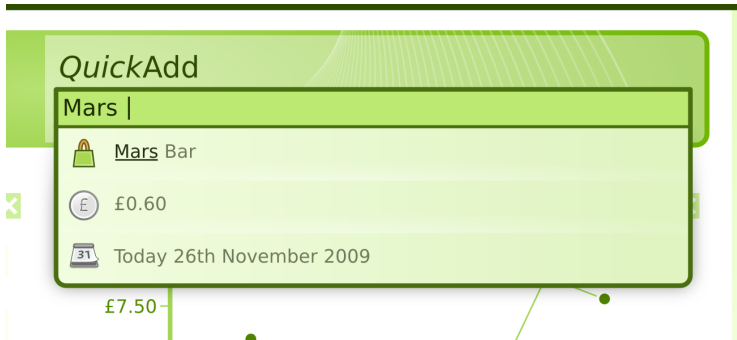
- Start
- Introduction
- Application Features
- Accessibility & Design**
- Legal And Ethical Matters
- Comparisons
- Future Expansion
- The End
- Questions and Answers

- Overview
- The Welcome Screen
- The Summary Screen
- The Tool Bar**
- The Tool Bar
- Icons
- Viewing Transactions

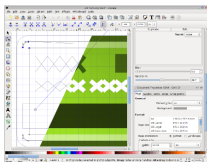
The Tool Bar



The Tool Bar



Icons



tango!



Viewing Transactions

The screenshot shows the 'The MoneyThing' web application interface. At the top, there is a navigation bar with 'Money', 'Options', and 'Help' tabs. Below this is a search bar and two filter dropdowns: 'FILTER BY ACCOUNT' (with options: Any, Cash, Natwest Account, Lloyds Account) and 'FILTER BY CATEGORY' (with options: Any, Food, Going Out, Computer, Transfers). The main content area displays a table of transactions with columns for Date, Description, Category, Ammt., Balance, and Account. The table is filtered to show transactions from today, yesterday, last week, and October. A 'Load More...' button is visible at the bottom of the table.

Date	Description	Category	Ammt.	Balance	Account
NEW					
25th Nov 2009	Mars Bar	Food	£0.60	£1015.29	Cash
25th Nov 2009	Digestive Biscuits	Food	£0.57	£1015.89	Cash
YESTERDAY					
24th Nov 2009	Chocolate Birthday Cake	Food	£5.12	£1016.46	NatWest Account
LAST WEEK					
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
OCTOBER					
29th Oct 2009	Rotten Cheese	Food	£1.00	£1044.00	NatWest Account
25th Oct 2009	Withdraw Cash	Transfer	£20.00	£1045.00	Cash
25th Oct 2009	Withdraw Cash	Transfer	£20.00	£1025.00	Lloyds Account
22th Oct 2009	Student Loan	Food	£1000.00	£1045.00	Lloyds Account
21th Oct 2009	Birthday Gifts	Food	£45.00	£45.00	NatWest Account



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

- Legal and Ethical Issues
- Sensitive Data
- Secure Data Storage
- Password Hashing
- Data Protection Act

Eleni Georghiades

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



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

Legal and Ethical Issues

Sensitive Data
Secure Data Storage
Password Hashing
Data Protection Act

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

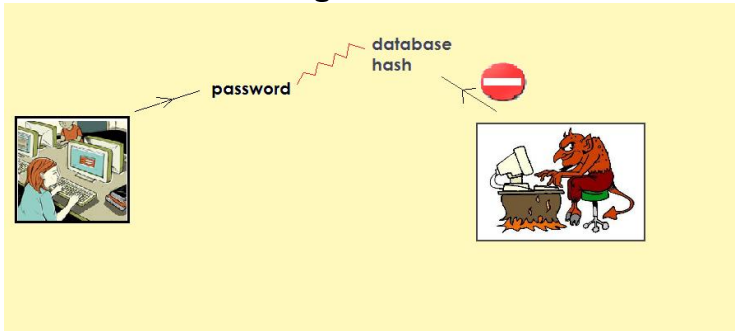


Securing Data was a critical part of the design. Various strategies implemented to ensure data is stored in a secure environment.



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

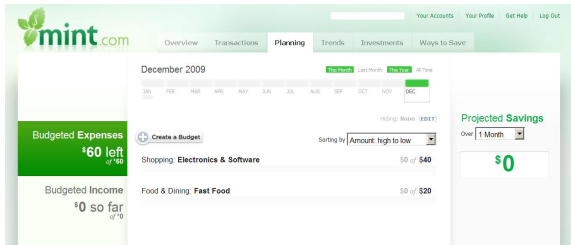


Matt Dixon

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



Mint.com



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



Comparisons

Set a Budget

Choose a Category

- Auto & Transport
- Bills & Utilities
- Business Services
- Education
- Entertainment
- Fees & Charges
- Financial
- Food & Dining
- Gifts & Donations
- Health & Fitness
- Home
- Kids
- Personal Care
- Pets
- Shopping
- Taxes
- Transfer
- Travel
- Uncategorized

Auto Insurance
Auto Payment
Gas & Fuel
Parking
Public Transportation
Service & Parts
Add/Edit Categories...

You vs. US Avg

	\$2,000
	\$1,500
	\$1000
	\$500

APR MAY JUN JUL AUG SEP

Choose a category to see your historical spending and spending average.

Cancel Save

- Easy to use



Currency Conversion

The screenshot shows a web-based 'Universal Currency Converter' interface. It features a 'Convert' input field with the value '1' and a 'Go!' button. Two dropdown menus allow selection of 'From this currency' (currently 'Euro - EUR') and 'To this currency' (currently 'United States Dollars - USD'). A list of other currencies is visible, including 'United States Dollars - USD', 'Euro - EUR', 'United Kingdom Pounds - GBP', 'Canada Dollars - CAD', and 'Australia Dollars - AUD'. The interface also includes links for 'License our Data', 'Free rates by e-mail', and 'Put this tool on your site for free'.

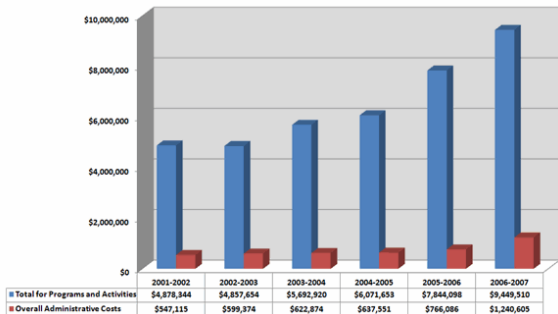
Currency conversion

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)?



Summary of Presentation

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



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

Questions & Feedback

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

