**Final test-case**

**M.1 Test Plan**

**1. Initial start up**

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| **Action** | **Expected Result** |
| 1. Open the app | You are presented with a screen which has a menu button at the top left hand  corner, and an ‘Analysis’, ‘+’ to represent logging spends and a ‘Budgets’ button at the bottom of the application. The main content of this screen is 2 square views which show daily and monthly allowances, both showing £0, and underneath those, progress views showing the budgets, the amount set for that budget and the total amount spent against it. On the initial start-up there is 1 budget present which is the ‘Non-Assigned’ budget with a spent and amount of  £0. |
| 2. Click (tap) the  menu button | The screen changes to the menu screen where you are presented with the menu  options (buttons) such as ‘home’, ‘income’ , ‘fixed expenses’, ‘”what-if?”’,  ‘budgets’, ‘analysis’ and ‘list spends. |
| 3. Click (tap) the  ‘+’ button | The screen changes to the Log Spends screen where you are presented field that  the user has to populate such as ‘name’, ’amount’, ‘budgets’, ‘date’ and ‘notes’ as well as a ’+’ (budgets), ‘save’ and ‘save & add’ buttons. The list of budgets should display any budgets which have been added on the budget screen. |
| 4. Click (tap) the  ‘Budgets’ button | The screen changes to the budgets screen where you are presented with the non-  assigned budget, a progress bar which is full and a spent and remaining amount  of £0. At the bottom of the screen there is an ‘Add budget’ button. |
| 5. Click (Tap) the  ‘Analysis’ button | The screen changed to the analysis screen where you are presented with a table  view with the following rows:   Comparison of spends against budgets based on duration   Spends against budgets based on duration   Spends against monthly budgets |

**2. Budget Screen**

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| 1. Click (tap) the ‘Add Budget’ button | The screen changes to the Add New screen where you are  presented field that the user has to populate such as  ‘name’, ’amount’, ‘re-occurring day , ‘re-occurring duration’  and ‘notes’ as well as a ‘save’ and ‘save & add’ buttons. |
| 2. Click (tap) the Save button | An error message is displayed as the name and amount  fields are empty. The required fields which are empty |

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|  | (‘name’ and/or ‘amount’) change colour to red to inform  the user which fields are required. |
| 3. Click (tap) the ‘Save & Add’ button | An error message is displayed as the name and amount  fields are empty. The required fields which are empty (‘name’ and/or ‘amount’) change colour to red to inform the user which fields are required. |
| 4. Enter a name e.g. “Food” and an  amount of 50 and a duration of 1 week  and click (tap) the “Save & Add” button. | An acknowledgment is displayed for 2 seconds which says  “Budget Saved”, when the acknowledgement disappears the populated fields are reverted to the default (Text fields are empty, and the re-occurring day is 1 and the duration is Day(s)) |
| 5. Try and enter a “test” in the name  and amount field, and click (tap) the save button. | The field should be non-responsive, not allowing the input |
| 6. Try and enter ‘.’ In the name and  amount field, and click (tap) the save button. | The amount label’s font colour should change to red. An  error message will appear at the top of the screen stating  “Please enter a numerical value” |
| 7. Try and enter “Test” in the name text  field and “4.10.3” in the amount text  field | 4.10 will be accepted, however when the second ‘.’ Is typed  the text field is non-responsive and doesn’t allow the input. |
| 8. Enter a name e.g. “Food” and an  amount of 50 and a duration of 1 week  and click (tap) the ‘Save & Add’ button. | An error message is displayed as the name “Food” already  exists. The name label changes colour to red to inform the users which field needs changing. |
| 9. Enter a name e.g. “entertainment”  and an amount of 50 and a duration of  1 Month and click (tap) the ‘Save’  button. | The error message will disappear and the amount label font  colour will revert back to the default. An acknowledgment  is displayed for 2 seconds which says “Budget Saved”, when the acknowledgement disappears the screen will change to the budget screen where the following are shown: Non- assigned, a full progress bar and a remaining and spent amount of 0. A Food budget with a full progress bar and a remaining and amount of £50. The entertainment budget will be capitalized and displayed as “Entertainment” rather than the inputted “entertainment”, it will have a full progress bar and an amount and remaining of £50. |
| 10. Click (tap) on the budget  ‘Entertainment’. | The logo on the top right of the screen should be replaced  with an ‘edit’ button. |
| 11. Click (tap) the edit button | The screen changes with the title ‘Edit Entertainment’.  There is a name, amount and notes text fields and a re- occurring duration number and type. The re-occurring day should be 1 and the type is Month as entered in step 8. |

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| 12. Click (tap) the Update button | An error message should appear at the top of the screen  which states “Please change fields before updating”. |
| 13. Try and enter a “test” in the amount  field, and click (tap) the update button. | The field should be non-responsive, not allowing the input |
| 14. Try and enter ‘.’ In the amount field,  and click (tap) the save button. | The amount label’s font colour should change to red. An  error message will appear at the top of the screen stating  “Please enter a numerical value” |
| 15. Try and “4.10.3” in the amount text  field. | 4.10 will be accepted, however when the second ‘.’ Is typed  the text field is non-responsive and doesn’t allow the input. |
| 16. Change the name of the budget  from ‘entertainment’ to ‘cinema’ and  ensure the amount text field is 50. | The error message will disappear and the amount label font  colour should change to the default. An Acknowledgement will appear for 2 seconds stating “Cinema Updated!”. The screen will change and the following budgets will be displayed: Non-assigned, a full progress bar and a remaining and spent amount of 0. A Food budget with a full progress bar and a remaining and amount of £50. A Cinema budget with a full progress bar and a remaining and  amount of £50. |
| 17. Click and swipe on the cinema  budget | The row should shift to the left and a delete button will  appear. |
| 18. Click (tap) ‘Delete’ | The budget is removed from the Budget screen. |

**3. Log Spends Screen**

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| **Action** | **Expected Result** |
| 1. Click (tap) the Save button | An error message is displayed as the name and amount fields  are empty. The required fields which are empty (‘name’ and/or  ‘amount’) change colour to red to inform the user which fields  are required. |
| 2. Click (tap) the ‘Save & Add’  button | An error message is displayed as the name and amount fields  are empty. The required fields which are empty (‘name’ and/or  ‘amount’) change colour to red to inform the user which fields  are required. |
| 3. Enter a name e.g. “Sandwich”  and an amount and of 4 against the budget ‘Food’ with today’s date & click (tap) the ‘Save & Add’ button. | An acknowledgment is displayed for 4 seconds which says  “Spend Saved”, when the acknowledgement disappears the populated fields are reverted to the default (Text fields are emptied) |
| 4. Enter a name e.g. “Greggs” and  an amount of 3 against the budget | An acknowledgment is displayed for 4 seconds which says  “Spend Saved”, when the acknowledgement disappears the |

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| ‘Food’, with today date and click  (tap) the ‘Save’ button. | screen changes to the Home Screen. The amount of the  “Todays” and “This Months” View will change from 0 to -7 and the food budget progress bar will be more than 1/10th full and a spent amount of £7 and an amount of £50. |
| 5. Click (tap) the ‘+’ (budget)  button | The screen changes to the budgets screen where you are  presented with an ‘Add budget’ button. |

**4. Analysis Option Screen**

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| **Action** | **Expected Result** |
| 1. Click (tap) the ‘Comparison of  spends against budgets based on  duration’ | The screen changes to the Compare Spends Screen. There is a  segment at the top of the view which has ‘Month’ selected, the current month is displayed and to the left there is a ‘<’ button to represent going back to the previous month. An ‘i’ button is at the far right. At the centre of a view there is a label stating “No Data or MONTH YEAR. A chart cannot be displayed” |
| 2. Click (tap) the ‘Spends against  budgets based on duration’ | The screen changes to the Spends Per Duration Screen. There is  a segment at the top of the view which has ‘Month’ selected, the current month is displayed and to the left there is a ‘<’ button to represent going back to the previous month. An ‘i’ button is at the far right. |
| 3. Click (tap) the ‘Spends against  Monthly budgets’ | The screen changes to the Historical Spends. There is a segment  at the top of the view which has ‘3 Months’ selected, an ‘i’  button is below the segment at the far right.  There is a circle with a y value of 0 and a dashed line with a y value of 0 with a colour of purple. Underneath there is a table showing the budgets ‘non-assigned’ with a purple colour swatch to the left of the name and a checkbox to the right are both selected. |
| 4. Click (tap) the ‘Spends against  Weekly budgets’ | The screen changes to the Historical Spend. There is a segment  at the top of the view which has ‘1 Month’ selected, an ‘i’  button is below the segment at the far right.  There is a circle with a y value of 7 and a dashed line with a y value of 50 with a colour of purple. Underneath there is a table showing the budgets ‘Food’ with a purple colour swatch to the left of the name and a checkbox to the right are both selected. |

**5. Menu Screen**

**Action Expected Result**

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| 1. Click (tap) the Home button | You are presented with a screen which has a menu button at the  top left hand corner, and an ‘Analysis’, ‘+’ to represent logging spends and a ‘Budgets’ button at the bottom of the application. The main content of this screen is 2 square views which show daily and monthly allowances, both showing -£7, and underneath those, progress views showing the budgets, the amount set for that budget and the total amount spent against it. There is a Non- Assigned budget with an empty progress view and a spent and amount of £0 and another budget called Food with a 14% full  progress view full with a spent amount of £7 and an amount of £50. |
| 2. Click (tap) the Income button | The screen changes to the income screen where you are presented  with a view at the top of the screen which states “You have no  income. To be able to afford your expenses you need to earn  £217.86 per month”, a History button at the top right hand corner of the screen and an ‘Add income’ button at the bottom of the screen. |
| 3. Click (tap) the Fixed Expenses  button | The screen changes to the fixed expenses screen where you are  presented with an ‘Add Fixed Expense’ button at the bottom of the screen. A logo at the top right hand corner and a “< Menu” button at the top left hand corner. |
| 4. Click (tap) the “What If?”  button | The state of the button changes and flashes to indicate the button  has been clicked. There are 3 text fields to enter the name of the question ”What are you saving for?” and “How much does it cost?” as well as having 2 picker views where the user can enter the saving period. At the bottom of the screen there is a “Calculate” button. |
| 5. Click (tap) the Budget button | The screen changes to the budgets screen. There is a non-assigned  budget with a full progress bar, an amount and remaining of £0. A Food budget with an 86% full progress bar, with a remaining amount of £43 and an amount of £50. There is also an ‘Add budget’ button at the bottom of the screen. |
| 6. Click (tap) the Analysis button | The screen changed to the analysis screen where you are presented  with a table view with the following rows:   Comparison of spends against budgets based on duration   Spends against budgets based on duration   Spends against monthly budgets   Spends against Weekly budgets |
| 7. Click (tap) the List Spends  button | The state of the button changes and flashes to indicate the button  has been clicked and the screen changes to the List Spends Screen.  There are 2 spends logged. The first is “Greggs”, with an amount of  £3, the date of date & time and the budget “Food”. The second is |

“Sandwich” with a spend of £4, the date and time and the budget

“Food”.

**6. Income Screen**

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| 1. Click (tap) the ‘Add New  Income’ button | The screen changes to the Add New screen where you are  presented field that the user has to populate such as ‘name’,  ’amount’ a reoccurring checkbox, ‘re-occurring day , ‘re-occurring  duration’, start date, ‘notes’ and a ‘save’ and ‘save & add’ buttons. |
| 2. Click (tap) the Save button | An error message is displayed as the name and amount fields are  empty. The required fields which are empty (‘name’ and/or  ‘amount’) change colour to red to inform the user which fields are  required. |
| 3. Click (tap) the ‘Save & Add’  button | An error message is displayed as the name and amount fields are  empty. The required fields which are empty (‘name’ and/or  ‘amount’) change colour to red to inform the user which fields are  required. |
| 4. Enter a name e.g. “Job” and  an amount of £200, the re- occurring button selected and a duration of 1 Month & a start date of the start of the current month and click (tap) the Save button. | An acknowledgment is displayed for 2 seconds which says “Income  Saved”, when the acknowledgement disappears the screen changes to the Income Screen. The view on the income screen should now display “Total income per month: £200” There is a row underneath the view showing the income name “Job”, repeats every 1 month with an amount of £200 |
| 5. Click (tap) the ‘Add New  Income’ button | The screen changes to the Add New screen where you are  presented field that the user has to populate such as ‘name’,  ’amount’ a reoccurring checkbox, ‘re-occurring day , ‘re-occurring  duration’, start date, ‘notes’ and a ‘save’ and ‘save & add’ buttons. |
| 6. Enter a name e.g. “Job” and  an amount of £200, the re- occurring button selected and a duration of 1 Month & a start date of the start of the current month and click (tap) the Save button. | An error message is displayed as the name “Job” already exists. The  name label changes colour to red to inform the users which field needs changing. |
| 7. Enter a name e.g. “Website  Work” with an amount of £50 and deselect the reoccurring button. | A label should appear next to the duration pickers stating “How  long should this last?:” |
| 8. Enter a duration to 1 month  & change the start date of the | An acknowledgment is displayed for 2 seconds which says “Income  Saved”, when the acknowledgement disappears the screen changes |

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| start of this month. Click (tap)  the “Save” button | to the Income Screen. The view on the income screen should now  display “Total income per month: £250” ” There Is 2 rows underneath the view showing the income name “Job”, repeats every 1 month with an amount of £200 as well as “Website Work” which is a one-off income and has to last 1 Month, and has an end date of 01-(next month)-16. |
| 9. Click on the budget ‘Job’. | The logo on the top right of the screen should be replaced with an  ‘edit’ button. |
| 10. Click the edit button | The screen changes with the title ‘Edit Job’. There is a name,  amount and notes text fields and a re-occurring duration number and type. The re-occurring pickers are un-editable and there is a label stating “(Cannot change reoccurring field)”. The fields are set to 1 Month(s) |
| 11. Click the Update button | An error message should appear at the top of the screen which  states “Please change fields before updating”. |
| 12. Try and enter a “test” in the  amount field. | The field should be non-responsive, not allowing the input |
| 13. Try and enter ‘.’ In the  amount field, and click (tap) the save button. | The amount label’s font colour should change to red. An error  message will appear at the top of the screen stating “Please enter a numerical value” |
| 14. Try and “4.10.3” in the  amount text field. | 4.10 will be accepted, however when the second ‘.’ Is typed the  text field is non-responsive and doesn’t allow the input. |
| 15. replace the amount of the  budget from “200” to “210” | An acknowledgment is displayed for 4 seconds which says “Job  Income Updated!”, when the acknowledgement disappears the screen changes back to the Income Screen now showing 2 rows underneath the view showing the income name “Job”, repeats every 1 month with an amount of £210 as well as “Website Work” which is a one-off income and has to last 1 Month, and has an end date of 01-(next month)-16. |
| 16. Create an income called  “Test” with an amount of £1 which occurs every 1 day. Click (tap) the save button. | An acknowledgment is displayed for 2 seconds which says “Income  Saved”, when the acknowledgement disappears the screen changes to the Income Screen. The view on the income screen should now display “Total income per month: £291” |
| 17. Tap and swipe left over the  ‘Test’. | A delete option should appear |
| 18. Click ‘Delete’ | The income is removed from the screen. The view changed from  showing “Total income per month: £291” to “Total income per month: £260”. |

**7. Income History**

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| 1. Within the income screen,  click (tap) on the history button. | The screen will change to the historical income screen. There is  3 rows, the first showing “Job” with an amount of £210, with a start date of today and an end date of present. The second row is also “Job” with an amount of £200 with a start date of 01- (this month)-16 and an end date of today. The final row should “Website Work” with an amount of £50 and a start date of 01- (this month)-16 and an end date 01-(next month)-16 |
| 2. Click (tap) on a row | The screen should be unresponsive. |

**8. Fixed Expenses Screen**

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| 1. Click (tap) the ‘Add Fixed  Expense’ button | The screen changes to the Add New screen where you are presented  field that the user has to populate such as ‘name’, ’amount’, ‘re- occurring day , ‘re-occurring duration’ and ‘notes’ as well as a ‘save’ and ‘save & add’ buttons. |
| 2. Click (tap) the Save button | An error message is displayed as the name and amount fields are  empty. The required fields which are empty (‘name’ and/or  ‘amount’) change colour to red to inform the user which fields are  required. |
| 3. Click (tap) the ‘Save & Add’  button | An error message is displayed as the name and amount fields are  empty. The required fields which are empty (‘name’ and/or  ‘amount’) change colour to red to inform the user which fields are  required. |
| 4. Enter a name e.g. “Phone”  and an amount of £10 and a duration of 1 month and click (tap) the “Save & Add” button. | An acknowledgment is displayed for 2 seconds which says “Fixed  Expense Saved”, when the acknowledgement disappears the populated fields are reverted to the default (Text fields are empty, and the re-occurring day is 1 and the duration is Day(s)) |
| 5. Enter a name e.g. “Phone”  and an amount of £10 and a duration of 1 month and click (tap) the “Save” button. | An error message is displayed as the name “Phone” already exists.  The name label changes colour to red to inform the users which field needs changing. |
| 6. Try and enter a “test” in the  amount field. | The field should be non-responsive, not allowing the input |
| 7. Enter a name e.g. “Rent”,  try and enter ‘.’ In the amount field, and click (tap) the save button. | The amount label’s font colour should change to red. An error  message will appear at the top of the screen stating “Please enter a numerical value” |

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| 8. Try and “4.10.3” in the  amount text field. | 4.10 will be accepted, however when the second ‘.’ Is typed the text  field is non-responsive and doesn’t allow the input. |
| 9. Enter a name e.g. “Rent”  and an amount of £100 and a duration of 1 week and click (tap) the “Save” button. | An acknowledgment is displayed for 2 seconds which says “Fixed  Expense Saved”, when the acknowledgement disappears the screen  changes to the Fixed Expense Screen. |
| 10. Click (tap) on the Phone  fixed expense | The logo should be replaced with an edit button. |
| 11. Click (tap) the edit button | The screen changes with the title ‘Edit Phone. There is a name,  amount and notes text fields and a re-occurring duration number and type. The re-occurring pickers are un-editable and there is a  label stating “(Cannot change reoccurring field)”. The fields are set to  1 Month(s) |
| 12. Edit the amount to £15,  click (tap) the update button | An acknowledgment is displayed for 2 seconds which says “Phone  Updated1”, when the acknowledgement disappears the screen changes to the Fixed Expense Screen. The amount next to the phone has updated from £10 to £15. |
| 13. Tap and swipe left over  the ‘Phone. | A delete option should appear |
| 14. Click ‘Delete’ | The fixed expense is removed from the screen. |

**Do the following:**

 **Create the following budgets:**

o Name: Entertainment, Amount: 50, Duration: 1 Month

o Name: Travel, Amount: 120, Duration: 1 Month

o Name: Clothes, Amount: 20, Duration: 1 Week

 **Log the following spends:**

o Amount: £40, Budget: Food, Date: Previous Week

o Amount: £55, Budget: Food, Date: 2 Weeks prior

o Amount: £49, Budget: Food, Date: Previous Month

o Amount: £41, Budget: Food, Date: Previous Month, 1 week prior

o Amount: £50, Budget: Entertainment, Date: Current month o Amount: £45, Budget: Entertainment, Date: previous month o Amount: £40, Budget: Entertainment, Date: 2 months prior o Amount: £55, Budget: Entertainment, Date: 4 months prior o Amount: £30, Budget: Clothes, Date: Current Week

o Amount: £15, Budget: Clothes, Date: Previous Week

o Amount: £19, Budget: Clothes, Date: Previous Month

o Amount: £100, Budget: Travel, Date: Current Month o Amount: £110, Budget: Travel, Date: Previous Month o Amount: £130, Budget: Travel, Date: 2 Months Prior

**9. Compare Spends -** Comparison of spends against budgets based on duration

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| 1. Click (tap) the ‘i’ button | A view will be presented with a title of the graph and a brief  explanation on what the graph is showing. |
| 2. Click (tap) on the blue slice  within the pie chart (Travel) | The segment should increase in size to acknowledge it has been  selected. A label to the right of the pie chart should display “66.67% of the spends were logged against this budget”. A view should appear underneath the pie chart which has the colour swatch and name of the budget selected as well as the spent (£100) and budget amount (£120) for that given month. |
| 3. Click (tap) on the blue slice | The percentage label and view underneath the chart will disappear  and the slice will reduce to the same size as the other slices. |
| 4. Click (tap) on the ‘<’ button | The label will change to say the previous month. Additionally a ‘>’  button is now displayed |
| 5. On the table view, click  (tap) on the tick box on the  budget “Travel” | The ‘Travel budget checkbox is deselected and the budget is  removed from the pie chart, the label above the table will change from (2/5) to (1/5) |
| 6. on the table view, click (tap)  the tick box on  “Entertainment” | An acknowledgement will appear on the screen for 2 seconds stating  “Min of 1 at one time” |
| 7. Click (tap) on the year  within the segment | The chart and table will disappear and a label will appear saying “No  data for 2016. A chart cannot be displayed” |

**10. Spends Per Duration Screen -** Spends against budgets based on duration

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| 1. Click (tap) the ‘i’ button | A view will be presented with a title of the graph and a brief  explanation on what the graph is showing. |
| 2. Click (tap) on the red section  within the bar chart  (entertainment) | The bar which has been selected turns a shade darker to  acknowledge it has been selected. A view should appear underneath the bar chart which has the colour swatch and name of the budget selected as well as the spent and budget amount for that given month. |
| 3. Click (tap) on the red section  within the bar chart | The view underneath the chart will disappear and bar will revert to  the original colour. |
| 4. Click (tap) on the ‘<’ button | The label will change to say the previous month. Additionally a ‘>’  button is now displayed and the chart will update accordingly. |
| 5. Click (tap) on the year within  the segment | The chart and table will disappear and a label will appear saying  “No data for 2016. A chart cannot be displayed” |

**11. Historical Spends Screen -** Spends against monthly budgets

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| 1. Click (tap) the ‘i’ button | A view will be presented with a title of the graph and a brief  explanation on what the graph is showing. |
| 2. Click (tap) on the Blue  circle for the current month  (Travel) | A view should appear underneath the line chart which has the colour  swatch and name of the budget selected, the month which that spend was logged against as well as the spent (£100) and budget amount (£120) for that given month. |
| 3. Click (tap) on the “6  Months” segment | The chart should change to accommodate the new values. |
| 4. on the table view, click  (tap) the tick box on “Entertainment”, “Travel” & “Non-assigned” | An acknowledgement will appear on the screen for 2 seconds stating  “Min of 1 at one time” |
| 5. Click (tap) on the “2 years”  within the segment | The chart will not change as there is no new data |

To Do:

Within the income screen, change “Job” amount from £210 to £1250

**12. “What-If” Screen**

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| 1. Click (tap) the calculate  button | An error message should appear at the top of the screen stating “\*  Please fill in missing fields”, the “What are you saving for” and “How much does it cost” labels should turn red. |
| 2. enter “Holiday” in the first  text field and click (tap) the calculate button | The error message should remain present, the “What are you saving  for” label should revert back to the original colour and “How much does it cost” label should stay red. |
| 3. Enter an amount of 2000  and the saving period of 2 months. | The error message should disappear and the amount label revert back  to the original colour. A feedback message will appear above the calculate button stating: “Unfortunately you can’t afford £2000 over a periods of 2 months. You can afford a maximum of £339.05 per month and the holiday would cost £1000 per month.” |
| 4. Change the duration  period from 2 months to 6 months. | The calculate button will disappear and in its place 2 buttons will  appear, to the left “Update” and to the right “Save”, above these buttons the feedback message should state “Good news! You can afford £2000 over a period of 6 months. Click Save to add £333.33 as a fixed expense which will reoccur monthly. \*Please not, this fixed expense will not expire”. Above this message, 2 views will appear, the left view stating that the saving required per day would cost £10.96 and the right the savings required per month to be £333.33. |

5. Click (tap) the save button An acknowledgement will appear for 2 seconds stating that “Holiday Saved!” once it disappears the text fields will clear and the saving period will revert back to 1 day, the feedback views will also be

hidden.

**L.2 Test Run: 08/05/2016 – Pass**

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| **Action** | **Actual Result** | **Pass/Fail** |
| 1.1 | There is a menu bar at the top left hand corner, the name of the  application “BudgetBuddi” at the top centre and the logo at the top right. Underneath this, there are 2 views, the left view showing the remaining amount for today, and the right view he remaining amount for this month. Both defaulted at £0. Underneath the views is the default budget “Non- assigned” which has an empty progress view, and a spent and amount of  £0. At the bottom of the screen there are 2 rectangular buttons, to the left “analysis” and the right “Budgets”, in the middle of those buttons is a circular button “+” | Pass |
| 1.2 | The button flashes which provided acknowledgement it has been selected.  The screen changes to the menu screen. At the top left there is a “< Home”  button, centrally the title “Menu” and to the right the logo. Underneath  this there is the following menu options:   Home   Income   Fixed expenses   “What-If?”   Budgets   Analysis   List Spends | Pass |
| 1.3 | The button flashes which provided acknowledgement it has been selected.  The screen changes to the Log Spends screen. There are a variety of fields to be populated such as name, amount, budget, date and notes. As well as a ‘+’ button which allows you to add budgets and a ‘Save’ and ‘Save & Add’ button | Pass |
| 1.4 | The button flashes which provided acknowledgement it has been selected.  The screen changes to the Budgets screen. There is a single budget displayed with the name “Non-Assigned” which has a full progress bar, and an amount a remaining amount of £0. There is an “Add Budget” button at the bottom of the screen. | Pass |
| 1.5 | The button flashes which provided acknowledgement it has been selected.  The screen changes to the Analysis screen. There are 3 options, the first | Pass |

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|  | has a title of “Comparison of spends against budgets based on duration”  which has a pie chart image. The second has a title of “Spends against budgets based on duration” which has a bar chart image. The third has a title of “Spends against monthly budgets” and an image of the line chart. |  |
| 2.1 | The screen changed to the Add Screen. There are fields to be populated  such as name, amount, recurring and notes. There is also a save button to the (left) and Save & Add button (right) at the bottom of the screen. | Pass |
| 2.2 | An error message appears at the top of the screen stating “\*Please fill in  missing fields”. Additionally the name and amount label changed to red to  acknowledge which fields should be populated | Pass |
| 2.3 | The error message remains as the fields haven’t been populated | Pass |
| 2.4 | An acknowledgement appears stating “Budget Saved”. When the  acknowledgement disappears the populated fields are empty and the  reoccurring options are reverted to “1 Day”. | Pass |
| 2.5 | When a letter is attempted to be typed into the amount text field the field  is unresponsive and doesn’t allow letters to be typed | Pass |
| 2.6 | An error message appears and states “\*Please enter a numerical value” &  the amount label’s font colour turns red. | Pass |
| 2.7 | Once a single ‘.’ Has been typed, another is not permitted. The text field  becomes unresponsive and won’t allow a second ‘.’ To be typed. | Pass |
| 2.8 | An error message is displayed at the top of the screen stating “Name  already exists” and the name label’s font colour turns red. | Pass |
| 2.9 | The error message disappears and the name label font changes back to the  default font colour. An acknowledgment appears stating “Budget Saved”. The screen changes back to the budgets screen where the following budgets are shown:   “Non-Assigned”, with a full progress view and a remaining and  amount of £0.   “Food”, with a full progress view and a remaining and amount of  £50   “Entertainment”, with a full progress view and a remaining and amount of £50 | Pass |
| 2.10 | The entertainment row’s background changes to grey to acknowledge that  it has been selected. The logo at the top right hand corner is changed to an edit button. | Pass |
| 2.11 | The screen changes to the “Edit Entertainment” screen. The name and  amount fields are populated with “Entertainment” and 50 retrospectively.  The re-occurring is set to 1 month, which is un-selectable | Pass |

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| 2.12 | An error message appears at the top of the screen stating “Please change  fields before updating” | Pass |
| 2.13 | When a letter is attempted to be typed into the text field, it is not  permitted and doesn’t display. Only numerical values can be entered and a single ‘.’ | Pass |
| 2.14 | An error message appears at the top of the screen stating “Please fill in  missing fields”. The amount field’s label colour turns red. | Pass |
| 2.15 | Once a single ‘.’ Has been entered, the text field doesn’t accept another | Pass |
| 2.16 | The error message disappears and the amount label font colour changes  back to the default. An acknowledgment is displayed which states “Cinema Updated”. The screen then reverts back to the budget screen where the entertainment name is replaced with cinema. | Pass |
| 2.17 | The row is shifted to the left, a red delete option appears to the right of  the row. | Pass |
| 2.18 | The budget is removed from the screen | Pass |
| 3.1 | An error message appears at the top of the screen stating “Please fill in  missing fields”, the name and amount label’s font colour changes to red | Pass |
| 3.2 | The error message remains as well as the font colour for the name and  amount label | Pass |
| 3.3 | An acknowledgement was presented that stated “Spend Saved!”, The  populated fields were emptied an the budget reverted back to the default  of “Non-Assigned” | Pass |
| 3.4 | An acknowledgement was presented that stated “Spend Saved!” the  screen changed back to the home page. The remaining allowance for today and this month is changed to -£7 as well as the progress view for food  been full 14%. | Pass |
| 3.5 | The screen changes to the add screen. | Pass |
| 4.1 | The screen changes to the Compare Screen. The selected segment is  “Month”. Underneath the segment there is a label which has the current month & year and to the left a ‘<’ button. There is an ‘i’ button to the far right of the label. Underneath the label there is a notification which states “No data for Month Year. A chart cannot be displayed” | Pass |
| 4.2 | The screen changes to the Spends Per Duration Screen. The selected  segment is “Month”. Underneath the segment there is a label which has the current month & year and to the left a ‘<’ button. There is an ‘i’ button to the far right of the label. Underneath the label there is a notification which states “No data for Month Year. A chart cannot be displayed” | Pass |

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| 4.3 | The screen changes to the Historical Spends Screen. The selected segment  is “3 Months”. Underneath the segment there is an ‘i’ button. Underneath this is a chart which has a plotted point for the current month with a value of 0. There is a dashed limit line with a value of 0 both with the colour of purple. The x-axis is labelled “Month commencing” and the y-axis “£”. Underneath the chart there is a view which has a coloured (purple) square, the name of the budget (Non-assigned) and a checkbox. | Pass |
| 4.4 | The screen changes to the Historical Spends Screen. The selected segment  is “1 Month”. Underneath the segment there is an ‘i’ button. Underneath this is a chart which has a plotted point for the current month with a value of 7. There is a dashed limit line with a value of 50 both with the colour of purple. The x-axis is labelled “Week commencing” and the y-axis “£”. Underneath the chart there is a view which has a coloured (purple) square, the name of the budget (Food) and a checkbox. | Pass |
| 5.1 | There is a menu bar at the top left hand corner, the name of the  application “BudgetBuddi” at the top centre and the logo at the top right. Underneath this, there are 2 views, the left view showing the remaining amount for today (-£7), and the right view he remaining amount for this month. (-£7). Underneath the views is the default budget “Non-assigned” which has an empty progress view, and a spent and amount of  £0.Underneath this is another budget “food” with a progress view (full  14%) with a spent amount of £7 and an amount of £50. At the bottom of the screen there are 2 rectangular buttons, to the left “analysis” and the right “Budgets”, in the middle of those buttons is a circular button “+” | Pass |
| 5.2 | At the top left hand corner of the screen there is a ‘< Menu’ button, in the  centre there is a title of ‘Income’ and at the right there is a ‘History’  button.  Underneath this there is an orange view with the text “You have no income. To be able to afford your expenses you need to earn £217.86” per month”.  At the bottom of the screen there is an “Add New Income” button. | Pass |
| 5.3 | At the top left hand corner of the screen there is a ‘< Menu’ button, in the  centre there is a title of ‘Fixed Expenses’ and at the right there is a logo. At  the bottom of the screen there is an “Add Fixed Expenses” button. | Pass |
| 5.4 | There are 2 text fields to be populated, “what are you saving for” and  “how much does it cost” as well as 2 pickers which represent the saving  period. At the bottom of the screen there is a “Calculate” button. | Pass |
| 5.5 | There are 2 budgets displayed. The first has a name of “Non-Assigned”,  with a full progress bar and a remaining and amount of £0. The second  budget has a name of “Food”, with an 86% full progress bar and a | Pass |

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|  | remaining amount of £43 and an amount of £50. There is also an “Add  Budget” button at the bottom of the screen. |  |
| 5.6 | There are 4 options;   “Comparison of spends against budgets based on duration” which  has a pie chart image   “Spends against budgets based on duration” which as a bar chart  image   “Spends against weekly budgets” which has a line chart image   “Spends against monthly budgets” which has a line chart image | Pass |
| 5.7 | The screen changes to the List Spends Screen. There are 2 spends;   “Greggs” with an amount of £3, a date and a budget of “Food”.   “Sandwich” with an amount of £4, a date and a budget of “Food”. | Pass |
| 6.1 | The screen changes to the add screen. There is a name and amount text  field to be populated. A reoccurring checkbox which is selected and underneath there is a duration picker. There is a start date with a date selector and a notes text field.  At the bottom of the screen there is a ‘Save’ and ‘Save & Add’ button. | Pass |
| 6.2 | An error message is displayed at the top of the screen stating “Please fill in  missing fields”. The name and amount label’s font colour changed to red. | Pass |
| 6.3 | The error message and font colours remained | Pass |
| 6.4 | The error message disappeared and the font colour on the name and  amount label reverted to the default colour. An acknowledgement was presented that stated “Income Saved”. Once the acknowledgment disappeared the screen changed to the income screen where the text at the top of the screen changed to “Total income per month: £200” Underneath this view the income is displayed showing the name, repeat duration and amount. | Pass |
| 6.5 | The screen changes to the add screen. There is a name and amount text  field to be populated. A reoccurring checkbox which is selected and underneath there is a duration picker. There is a start date with a date selector and a notes text field.  At the bottom of the screen there is a ‘Save’ and ‘Save & Add’ button. | Pass |
| 6.6 | An error message appears at the top of the screen stating “Name already  exists” and the name label font colour is changed to red. | Pass |
| 6.7 | When the re-occurring checkbox is deselected a label appears to the left of  the duration options stating “How long should this last?:” | Pass |
| 6.8 | An acknowledgment appears stating “Income Saved”. The screen changes  to the income screen where the view text is updated to “Total income per | Pass |

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|  | month: £250”. Additionally the Website work is now shown underneath  the Job. |  |
| 6.9 | The job row’s background colour has changed to grey to acknowledge it  has been selected. Additionally the logo is replaced with an edit button. | Pass |
| 6.10 | The screen changes to the edit screen with the title “Edit Job”. The name  and amount fields are populated with “Job” and 200 retrospectively, the  reoccurring duration is set to 1 months however they are not reselectable. | Pass |
| 6.11 | An error message appears at the top of the screen stating “Please change  fields before updating” | Pass |
| 6.12 | The amount text field does not permit letters been inputted. | Pass |
| 6.13 | An error message appears at the top of the screen stating “please enter a  numerical value” and the amount label’s font colour changes to red | Pass |
| 6.14 | Once 1 ‘.’ Has been entered, another one is not permitted. | Pass |
| 6.15 | An acknowledgement appears stating “Job Updated” and the screen  changes to the income screen. The View text now states “Total income per month: £260” and the amount next to “Job” has been updated | Pass |
| 6.16 | An acknowledgment appears stating “Income Saved”. The screen changes  to the income screen where the view text is updated to “Total income per month: £290.5”. Additionally “Test” is now shown underneath the “Website Work”. | Pass |
| 6.17 | The row shifts to the left and a delete option appears | Pass |
| 6.18 | The income is removed from the screen and the view text now shows  “Total income per month: £260”. | Pass |
| 7.1 | There are 3 rows, the first with the name “Job” and the amount 210, a  start date of today and an end date of present. The second also has a name “Job” which has a start date of the start of this month and an end date of today. The third has a name “Website Work” with the amount £50 and a start date of the start of this month and the end date the start of next month. | Pass |
| 8.1 | The screen changes to the Add Screen where there are name, amount and  note field as well as re-occurring picker options. | Pass |
| 8.2 | An error message appears at the top of the screen stating “Please fill in  missing fields” and the name and amount label’s font changed red. | Pass |
| 8.3 | The error message and label colours didn’t change | Pass |
| 8.4 | The error message disappeared and the colours reverted back to the  default. An acknowledgment appeared stating “Fixed Expense Saved”. The | Pass |

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|  | name and amount fields were emptied and the picker reverted back to 1  Day(s). |  |
| 8.5 | An error message appeared at the top of the screen stating “Name already  exists” and the name label’s font colour changed to red. | Pass |
| 8.6 | The amount field does not permit any letters. | Pass |
| 8.7 | An error message appears at the top of the screen stating “Please enter a  numerical value” and the amount label changes to red. | Pass |
| 8.8 | One the first ‘.’ Has been entered, a second one is not permitted. | Pass |
| 8.9 | The error message is stated at the top of the screen and the amount label  colour is reverted to the default colour. An acknowledgment appears stating “Fixed Expense Saved” and the screen changes back to the fixed expenses screen. The rent appears underneath the phone. | Pass |
| 8.10 | The “Phone” row’s background changes to grey to acknowledge it has  been selected. The logo is replaced with an edit button. | Pass |
| 8.11 | The name and amount fields are populated with “Phone” and “10”  retrospectively. The re-occurring duration is 1 Month however the pickers are un-selectable. | Pass |
| 8.12 | An acknowledgement is displayed showing “Phone Updated”. The screen  changed to the fixed expenses screen and the phone amount is updated. | Pass |
| 8.13 | The row shifts to the left and a delete option is presented. | Pass |
| 8.14 | The “Phone” is removed from the fixed expenses | Pass |
| 9.1 | More information is provided on what the pie chart is showing. | Pass |
| 9.2 | The slice increases in size to acknowledge that it has been selected. To the  right of the graph a label appears that states “66.67% of the spends were logged against this budget. Additionally, underneath the chart a view appeared showing the colour swatch, the name of the budget (Travel), the spent amount (£100) and the amount (£120) | Pass |
| 9.3 | The percentage label and the view underneath the chart disappear. The  slice reverts back to the original size. | Pass |
| 9.4 | The label changed from April 2016 to March 2016. A ‘>’ button appeared  to the right of the label and the chart updated as expected. | Pass |
| 9.5 | The blue slice is removed from the pie chart. The colour swatch next to the  “Travel” budget is removed. | Pass |
| 9.6 | An acknowledgement appears stating “Min of 1 at one time” | Pass |
| 9.7 | The chart and table disappear and a label appears stating “No data for  2016. A chart cannot be displayed” | Pass |

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| 10.1 | More information is provided on what the bar chart is showing. | Pass |
| 10.2 | The bar turns to a darker shade of red. A view appears underneath the  chart which has a square with the same colour (red), the name of the budget (Entertainment) and the spend amount (£50) and amount (£50). | Pass |
| 10.3 | The view disappears from underneath the chart and the colour of the bar  changes back to the original colour. | Pass |
| 10.4 | The charts update as expected. The label changes from April 2016 to  March 2016 and a ‘>’ appears next to the label | Pass |
| 10.5 | The chart and table disappear and a label appears stating “No data for  2016. A chart cannot be displayed” | Pass |
| 11.1 | More information is provided on what the line chart is showing. | Pass |
| 11.2 | A view appears underneath the chart. A square has the same colour as the  budget which was selected. The budgets name (Travel), date, spend amount (£130) and amount (£120). | Pass |
| 11.3 | The chart updates to include the new values | Pass |
| 11.4 | An acknowledgement appears stating “Min of 1 at one time” | Pass |
| 12.1 | An error message appears at the top of the screen which states “Please fill  in missing fields”. The “what are you saving for” and “How much does it cost” label’s font turns red. | Pass |
| 12.2 | The error message and the “How much does it cost” font colour remains  however the “what are you saving for” font colour has reverted back to the  original. | Pass |
| 12.3 | Text appears above the calculate button which stated “Unfortunately you  can’t afford £2000 over a period of 2 Month(s). You can afford a maximum  of £333.05 per month and the holiday would cost £1000 per month” | Pass |
| 12.4 | The calculate button was removed and replaced with 2 buttons, update  (left) and save (right). The feedback text states “Good news! You can afford £2000 over a period of 6 months. Click ‘Save’ to ad £333.33 as a fixed expense which will re-occur monthly. \*Please note: this fixed expense will not expire.  Above this there are 2 boxes which state the saving required, the left shows the daily saving of £10.96 and the right, £333.33 per month. | Pass |
| 12.5 | An acknowledgement appeared stating “Holiday Saved!”, when  disappeared, the fields and picker options are reverted back to the default and the feedback view are hidden. | Pass |