Use-case defintions

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| Create an account |
| **Brief description:** The user fills out sign-up form and presses submit |
| **Actors:** User, System |
| **Preconditions:** The user is not logged in already |
| **Basic flow of events:**   1. The user visits the home page 2. The system checks if the cookies contain information about this user 3. The user clicks on the “Create An Account” button in the login form 4. The user fills out the sign-up form correctly and clicks the submit button 5. The system creates an entry for this user in the database, logs them in, and redirects to the Purchase page. |
| **Alternative Flow:**   1. The user is already logged in    1. The user visits the home page    2. The system hides the login form 2. The system finds a cookie containing the users information    1. The user visits the home page    2. The system performs a call to login the user automatically and refreshes the page 3. The user incorrectly fills out a field    1. The user enters their details in the signup form    2. The system performs checks on every field for invalid input    3. The system displays an error message containing instruction to fix the issue |
| **Postconditions:** The system adds the users information to the database |

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| Sign in |
| **Brief description:** The user fills out login form and presses submit |
| **Actors:** User, System |
| **Preconditions:** The user is not logged in already |
| **Basic flow of events:**   1. The user visits the home page 2. The system checks if the cookies contain information about this user 3. The user fills out the login form correctly and clicks the submit button 4. The system will log the user in and load the users data and redirect them to the Purchase page |
| **Alternative Flow:**   1. The user is already logged in    1. The user visits the home page    2. The system hides the login form 2. The system finds a cookie containing the users information    1. The user visits the home page    2. The system performs a call to login the user automatically and refreshes the page 3. The user incorrectly fills out a field    1. The user enters their details in the login form    2. The system performs checks on every field for invalid input    3. The system displays an error message containing instruction to fix the issue |
| **Postconditions:** The user has signed in |

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| Sign Out |
| **Brief description:** The user clicks on the sign out button |
| **Actors:** User, System |
| **Preconditions:** The user is logged in already |
| **Basic flow of events:**   1. The user visits the home page 2. The user clicks on the sign out button 3. The system logs the user out and redirects to the home page |
| **Alternative Flow:**   1. The user is not already logged in    1. The user visits the home page    2. The system hides the sign out button |
| **Postconditions:** The user has signed out |

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| Place order |
| **Brief description:** The user fills out login form and presses submit |
| **Actors:** User, System |
| **Preconditions:** The user is logged in already |
| **Basic flow of events:**   1. The user visits the purchase page 2. The user enters the amount of BTC desired 3. The system converts the entered amount to GBP 4. The user enters their Bitcoin wallet address 5. The user clicks the confirm button 6. The system makes an entry of the order for the user |
| **Alternative Flow:**   1. The user is not already logged in    1. The user visits the purchase page    2. The system identifies the user to not be logged in and redirect to the home page 2. The user incorrectly fills out a field    1. The user enters their details in the login form    2. The system performs checks on every field for invalid input    3. The system displays an error message containing instruction to fix the issue |
| **Postconditions:** The user has placed an order |

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| Confirm order |
| **Brief description:** The admin selects an order and clicks the submit button |
| **Actors:** User/Admin, System |
| **Preconditions:** The user logged in is an admin |
| **Basic flow of events:**   1. The admin visits the Orders Page 2. The system displays all open orders in the database 3. The admin selects the radiobox of an order 4. The admin clicks the submit button 5. The system sends the bitcoin to the user and marks the order as confirmed |
| **Alternative Flow:**   1. The user is not already logged in    1. The user visits the orders page    2. The system identifies the user to not be logged in and redirect to the home page 2. The user logged in is not an admin    1. The system will show a different view for non-admins |
| **Postconditions:** The order is confirmed and the Bitcoins are sent to a user |

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| View orders |
| **Brief description:** The user views their orders |
| **Actors:** User, System |
| **Preconditions:** The user is logged in already |
| **Basic flow of events:**   1. The user visits the orders page 2. The system displays all orders for this user in the database 3. The user is able to see the Bitcoin Transaction ID of orders |
| **Alternative Flow:**   1. The user is not already logged in    1. The user visits the orders page    2. The system identifies the user to not be logged in and redirect to the home page |
| **Postconditions:** The user is shown all their orders |

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| Forgotten password |
| **Brief description:** The user sets a new password using their registered email |
| **Actors:** User, System |
| **Preconditions:** The user is not logged in already |
| **Basic flow of events:**   1. The user visits the home page and clicks the “Forgotten Your Password” 2. The system hides the login form and display a different form 3. The user fills out the email field and submits 4. The system sends an email containing instructions to set a new password |
| **Alternative Flow:**   1. The user is already logged in    1. The user visits the home page    2. The system identifies the user to be logged in hides the login form 2. The user enters an incorrect email    1. The user visits the home page and clicks the “Forgotten Your Password”    2. The system hides the login form and display a different form    3. The user fills out the email field and submits    4. The system cannot find the email supplied by the user and shows an error message |
| **Postconditions:** The user receives an email with instructions |

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| Contact Us form submission |
| **Brief description:** The user sends a message through a form in the footer of the website |
| **Actors:** User, System |
| **Preconditions:** None |
| **Basic flow of events:**   1. The user visits any page and fills out the contact us form 2. The user clicks the Send Message button 3. The system checks the contents of the fields submitted 4. The system stores the contents in the database 5. The system displays a “Thank You” message |
| **Alternative Flow:**   1. The user incorrectly fills out a field    1. The user enters their details in the contact us form    2. The system performs checks on every field for invalid input    3. The system displays an error message containing instruction to fix the issue |
| **Postconditions:** The user submits a message |