Use Story Testing

#2 As a developer, I want to create a Django Project in the IDE, so that I have the framework for the Bet Tracker project

- Django project is created – bettingtracker
- Django installed in the IDE
- Django folder structure is present in the IDE
- Requirements text file created and populated

#3 As a developer, I want to have a Bet app created in the Django project to facilitate the bet tracking element of the project

- Bet app is created and folder structure is present in the IDE
- "bet/" url pattern displays "Hello, Bet app" message in test environment
- Bet is listed as an Installed App

#4 As a developer, I want to have a Bank app in the Django project to facilitate the money tracking and user ranking elements of the project

- Bank app is created and folder structure is present in the IDE
- "bank/" url pattern displays "Hello, Bank app" message in test environment
- Bank is listed as an Installed App

#5 As a project, I want to be deployed to Heroku, so that I am available to all potential users.

- Project is deployed to Heroku
- Bet/ url pattern displays "Hello, Bet app" message in html page
- Bank/ url pattern displays "Hello, Bet app" message in html page

#6 As a developer, I want to set up and configure my database and Bet app models, so that data can be added via the admin page

- Admin page contains the Bet model and all fields
- Admin page contains the Line model and all fields
- Line data can be entered via Admin page with all fields populated
- Bet data can be entered via Admin page with all fields populated
- Multiple lines can be associated with a single Bet
- A line can be assigned to one Bet only
- Superuser can add, delete, update and view Bet records
- Superuser can add, delete, update and view Bet records

#7 As a superuser I want to have an admin page that is customised to the project, so that the data and admin functions are presented in an intelligent way

- Admin site is customised with relevant and useful search options
- All database data is present and ordered
- Bets can be filtered by user on the admin page
- Bets can be filtered by status
- Bets are ordered with the most recent at the top

#8 As a user, I want to view all open bets so that I can see what other user's bets are upcoming

- All current Open Bets are displayed to the user on the home page

- All lines of each bet can be displayed to the user
- All line details are displayed – teams, odds, success
- Bet stake is displayed in £
- Bet status = pending is displayed
- Bets can be 'shrunk' to hide the line information and only show bet summary.
- All bets are displayed on a single page with no pagination
- Bets are displayed in order with the most recent at the top

#10 As a user, I want to have consistent styling across all pages so that the site is accessible and familiar

- Open bets html page inherits from base template
- Custom CSS styles are applied to enhance bootstrap framework
- Header, including Navbar and footer are the same on all pages
- All html pages inherit from the base.html template

#11 As a user, I want to view all settled bets so that I can review all previous betting activity

- All current Settled Bets are displayed in modified date order, most recent at the top
- Settled bets page inherits from Base.html
- Users name is clearly associated with each bet
- All line details are displayed – teams, odds, success
- Bet stake is displayed in £
- Bet status = pending is displayed
- Bets can be 'shrunk' to hide the line information and only show bet summary.
- All bets are displayed on a single page with no pagination
- Winning bets are clearly distinguishable from losing bets
- Only settled bets are displayed

#12 As a user, I want to add a bet to the site so that share with others and track my success

- User can add a bet to the site via website page
- Entry into all data fields is validated
- Default bet status is 'pending'
- Error is displayed if mandatory field is left empty
- User is notified when the bet is added successfully
- Form is styled consistently with the rest of the site

#13 As a user, I want to edit my open bets so that update the result, status and make any necessary corrections

- User can update the match result of any line
- User can edit the bet stake to another valid amount
- User can edit the odds to another valid amount
- User can edit all lines
- All fields are validated before the updates are saved
- User is notified of the successful change
- Only the user who placed the bet can edit the bet

#14 As a user, I want to delete an open bet so that the bet details are removed from the database4

- User is notified with confirmation the bet has been deleted
- Bet is removed from the database
- All lines are removed from the database
- User is prompted that bet will be deleted
- User is prompted for confirmation before bet is deleted
- Only the user who placed the bet can delete the bet

#19 As a visitor, I want to register to the site so that i can use the site and track my bets

- User provides unique username
- Email address entry is optional

#20 As a user, I want to login to the site so that I can make changes to my bets, and make new bets

- Users not logged in can only view the bets and money list on the site
- Login page styled consistently with the rest of the site
- Sign up page styled consistently with the site

#21 As a user, I want to logout of the site so that my account is not logged in when i am not using the site

- User can no longer edit, add, delete bets when they have logged out
- User can still view the site and bet information
- User is given notification that they have successfully logged out

#22 As a user, I want to view all user bank amounts so that I can see where I rank in the community

- List of users and their bank amount / balance is displayed in descending amount order

#23 As a user, I want to see information presented intelligently and cleanly on the site so that the site is easy to read

- Bets are displayed clearly with status of each line shown
- Collapsible bet display to show only the summary of older bets
- Most recent bets are expanded
- Allow space for CRUD buttons

#24 As a user, I want to see my account balance on the homepage so that i know how successful my bets are

- User's balance is displayed on the View Bets Page
- Negative balances are shown in red
- Positive Balances are shown in green
- Amount with maximum number of characters is displayed clearly

#25 As a user, I want to see the deployed project with intended styling so that I view the site as intended

- Hosted project uses the same styling as the development site

#26 As a user I want to add multiple lines to my new bet so that I can place accumulator bets on more than one match at a time.

- User can choose to add more lines to a bet
- Multiple lines are displayed at the same time when placing a bet
- Any line can be edited before the bet is confirmed and added

#27 As a tester, I want to automate tests to the bet form function so that i can ensure the functions work as expected

"Could have" functionality so not all elements were implemented

- BetForm, LineForm, EditBetForm classes tested with automated tests

#28 As a user, I want to track my betting account balance so that I can see how profitable my bets are

- Bank balance is decreased by the stake amount when a losing bet is settled

-   Bank balance is increased by the returned amount – stake amount when a winning bet is settled

#30 As a user, I want to view a home page that explains how to use the site so that a casual viewer unfamiliar with betting can use the site

-   New homepage loads with the '/' url address
-   Nav bar links work correctly
-   'bets/' url is working address for the bet list pages

#31 As a user, I want to view a responsive and consistently styled site so that the user experience is a good one when using the site

-   All pages are consistently styled
-   All pages are responsive
-   User messaging is clear and intuitive

#32 As a **site owner**, I want to **have custom error pages** so that **users know that they are still on my website and are guided back to the home page**

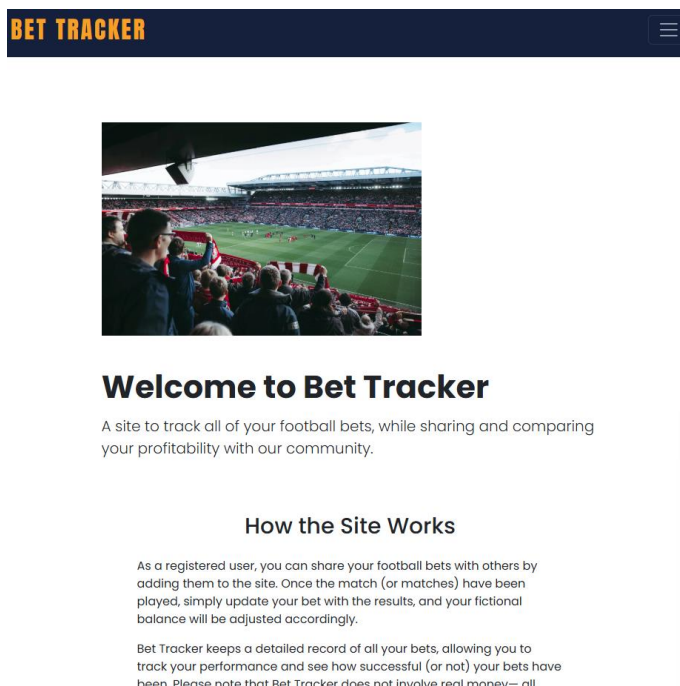Tasks were completed but the acceptance criteria was not met.
As this is only an optional 'could have' feature, there was no resolution.

Features Testing

Homepage (index.html) (including Header & Footer)

– all tests passed

-   Main image and surrounding text are responsive
-   Nav bar collapses on small screens

- Navbar drop down contains all links in the same order
- Navbar toggles visibility when burger icon clicked
- Github footer link opens in a new tab
- Clicking Email link opens email program

View Bets (bets.html) – all tests passed

Open Bets

- Username is displayed prominently
- All current Open Bets are displayed
- Users name is clearly associated with each bet
- All line details are displayed – teams, odds, predication, status.
- Bet stake is displayed in £

- Bet status = pending is displayed
- No bets that are not pending are displayed
- Bets can be 'collapsed' to hide the line information and only show bet summary.
- All bets are displayed on a single page with no pagination
- Status of each match line is shown clearly to the viewer
- User can access "Update" and "Delete" Buttons for their bets only
- Stake amount is shown for each bet
- Number of lines is shown for each bet
- If 1 bet line only, Single is displayed.
- User cannot edit other user's bets
- User's balance is displayed at the top of the screen
- Links to open bets and settled bets pages are clearly shown
- Styling of links shows which page is currently active
- Only the most recent bets are loaded in an 'expanded' state
- Clicking the bet title expands and collapses the line details
- Update and Delete buttons remain visible when the bet is collapsed
- On small screens, username sits on it's own row to avoid text overlapping

Settled Bets – all tests passed

- All current Settled Bets are displayed in modified date order, most recent at the top

- Users name is clearly associated with each bet
- All line details are displayed – teams, odds, success
- Bet stake is displayed in £
- Settled Amount is displayed in £
- Bet status is displayed and styled. Red for loss, Green for win
- Bets can be 'collapsed' to hide the line information and only show bet summary.
- All bets are displayed on a single page with no pagination

BET TRACKER

Open Bets | **Settled Bets**   Balance: **£ 35.67**

Tracker1   £55.00   Single   Settled: £0.00   [Lost]

| Hull v Tottenham | Prediction: Home | Odds: 8.755 | ○ |

Tracker1   £12.00   Single   Settled: £0.00   [Lost]

| Everton v Coventry | Prediction: Away | Odds: 1.250 | ○ |

Tracker1   £10.00   Single   Settled: £0.00   [Lost]

| Everton v Coventry | Prediction: Away | Odds: 1.250 | ○ |

Tracker1   £55.00   5-fold   Settled: £12.39   [Lost]

Luton v Fulham	Prediction: Home	Odds: 1.890	✓
Burnley v Coventry	Prediction: Away	Odds: 3.450	✓
France v Denmark	Prediction: Away	Odds: 1.470	✓
Celtic v St Mirren	Prediction: Draw	Odds: 3.450	○
Bolton v Tottenham	Prediction: Home	Odds: 2.500	✓

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Tottenham	Home		

Tracker1	£11.11	Single	Settled: £0.00	Lost
Hull v Coventry	Prediction: Home	Odds: 2.470 ○		

Tracker1	£2.99	2-fold	Settled: £3.99	Won

Tracker1	£10.00	Single	Settled: £34.00	Won

Tracker1	£11.00	Single	Settled: £13.66	Won

Tracker1	£12.00	Single	Settled: £0.00	Lost

Tracker1	£33.00	Single	Settled: £0.00	Lost

MrBets	£33.33	Single	Settled: £39.00	Won

Tracker1	£23.00	Single	Settled: £24.00	Lost

harrydhillon	£1.00	Single	Settled: £10.00	Won

MrBets	£12.33	Single	Settled: £42.33	Won

AlphaBet	£99.99	Single	Settled: £120.00	Won

Tracker1	£55.12	Single	Settled: £0.00	Lost

Tracker1	£21.00	2-fold	Settled: £3.20	Lost

- On small screens, username sits on it's own row to avoid text overlapping

Celtic v St Mirren	Prediction: Draw	Odds: 3.450	○
Bolton v Tottenham	Prediction: Home	Odds: 2.500	✓

Tracker1
£11.11   Single   Settled: £0.00   `Lost`

Hull v Coventry	Prediction: Home	Odds: 2.470	○

Tracker1
£2.99   2-fold   Settled: £3.99   `Won`

Tracker1
£10.00   Single   Settled: £34.00   `Won`

Tracker1
£11.00   Single   Settled: £13.66   `Won`

Tracker1
£12.00   Single   Settled: £0.00   `Lost`

Tracker1
£33.00   Single   Settled: £0.00   `Lost`

MrBets
£33.33   Single   Settled: £39.00   `Won`

Add Bet – all tests passed

- Stake amount can be entered
- Error displayed when amount is invalid

> Enter the stake amount in £.
> Stake*
>
> | -1.2 | ⊙ |
>
> **Stake amount must be greater than zero**

- Form will not submit with invalid odds amount
- Form will not submit with invalid length team name
- Form will submit with stake only (no lines)
- Form will not submit with partially entered line data

BET TRACKER

Add a new bet

Enter the stake amount in £.
Stake*

[   ]

Match Fixture: (Home v Away)	Prediction	Odds
[ ] v [ ]	Home ⌄	[ ]
[ ] v [ ]	Home ⌄	[ ]
[ ] v [ ]	Home ⌄	[ ]
[ ] v [ ]	Home ⌄	[ ]
[ ] v [ ]	Home ⌄	[ ]
[ ] v [ ]	Home ⌄	[ ]

- Message displayed to the user on success

SUCCESS! Your bet has been added.Either add ✕
another bet or return to the home page

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Update Bet (update_bet.html) – all tests passed

- All bet details are displayed to the user
- No additional lines can be added.
- Lines can be deleted from the bet
- Correct message is displayed to the user when bet status is pending
- Correct button is enabled when the bet status is pending

Bet status is pending

Save changes now to update your bet and return to the home screen.

[Save Changes] [Settle & Close Bet]

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- Correct button is enabled when the bet status is win and is valid
- Correct message is displayed when the bet status is win and is valid

Please check all bet lines are correct. No changes are possible once the bet is closed.

Saving now will settle the bet as a WINNER, with a return of £45

Save Changes **Settle & Close Bet**

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- Correct button is enabled when the bet status is lose and is valid
- Correct message is displayed when the bet status is lose and valid

Please check all bet lines are correct. No changes are possible once the bet is closed.

Saving now will settle as a losing bet.

Save Changes **Settle & Close Bet**

- Buttons are disabled when the bet status is win and is invalid
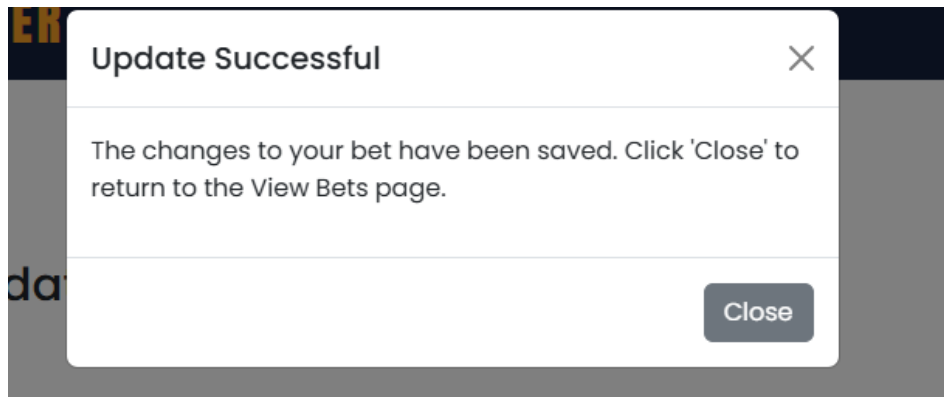- Correct message is displayed when the bet status is win and is invalid

This cannot be a winning bet. Settled amount is lower than the stake.

To continue, please change the bet status to Lose

Save Changes **Settle & Close Bet**

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- Buttons are disabled when the bet status is win and is invalid
- Correct message is displayed when the bet status is win and is invalid

This cannot be a losing bet. Settled amount is greater than the stake.
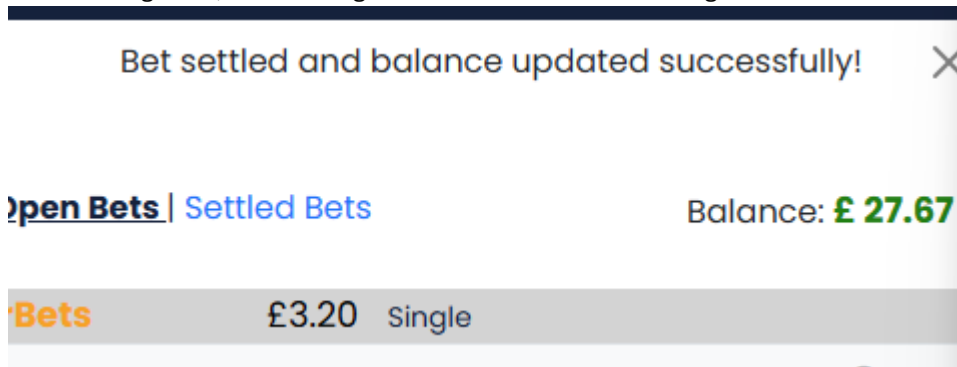
To continue, please change the bet status to Win

Save Changes **Settle & Close Bet**

- Following the corrective action enables the correct button
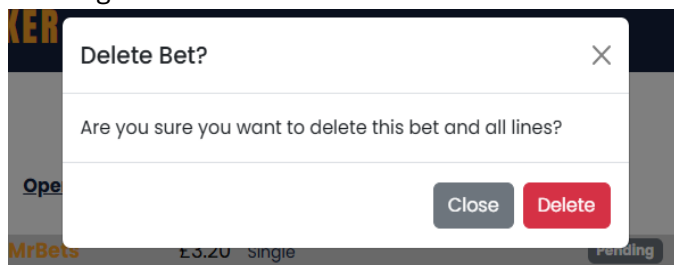- Saving changes with bet in pending state displays the confirmation Modal

- User is redirected to the View Bets screen when the modal closes
- User's updated bet sits on top of the list, as the most recently edited
- When settling a winning bet the user's balance is updated correctly
  - o   + Settled amount – Stake
- When settling a losing bet the user's balance is updated correctly
  - o   + Settled amount – Stake
- After settling a bet, the user is given confirmation via a message

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Delete Bet – all tests passed

- Only the user who added the bet can delete a bet
- Only open bets can be deleted
- User is prompted for confirmation before deleting
- Closing the modal does not delete the bet
- Clicking Delete in the Modal deletes the bet

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- Deleted bet does not appear on either bet list

Money List – all tests passed

- List of users balances is displayed in descending order
- Only users with a valid balance are displayed
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User Registration, Login, Logout

- Successfully tested as part of user stories

Automated Tests

Within the Bet app in Django, automated tests were conducted in the test_forms.py file to test the population and validation of form data.

All 33 validation tests passed successfully.