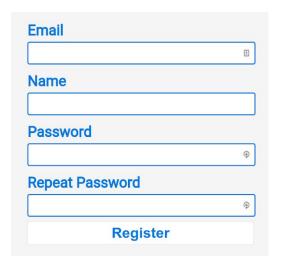
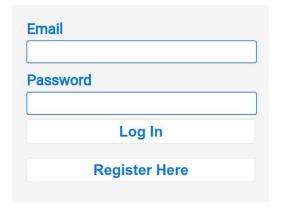
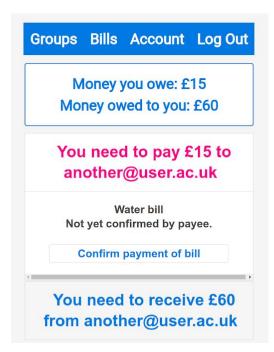
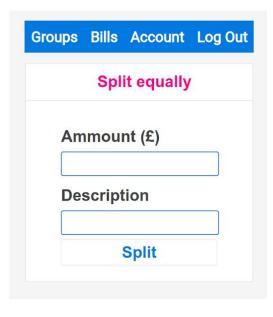
1. Main features

- User registration
- User authentication
- Split bill equally amongst group members
- New bills appear in the bill section, on top of older bills
- Total amount of money others owe to the user and the user owes to others is displayed
- A bill is settled when both parties press the confirm button
- Extensive use of AJAX and jQuery
- Modern and streamlined design, slick look and feel
- Over 1400 lines of code
- Available at <u>cs139.dcs.warwick.ac.uk/~u1925873/cs139/billsplitter</u>



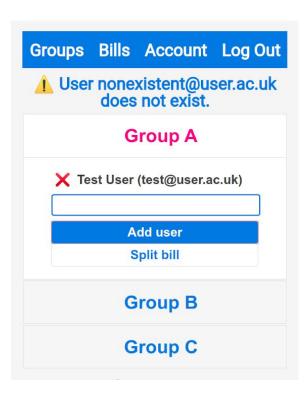


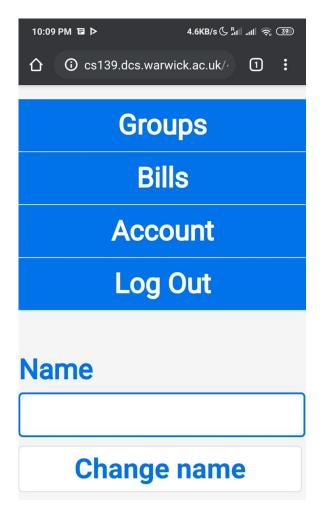




2. Accessibility and functionality

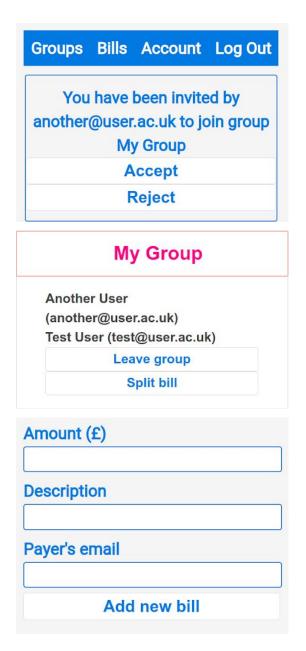
- Big letters and buttons
- Simple interface with intuitive UI
- Little to no reliance on colour coding
- High contrasts
- Use of a sans serif font (from Google Fonts) for better clarity on smaller displays
- Extensive use of jQuery UI, which implements many accessibility features
- The language of the website is specified in the header
- All buttons and inputs are accessible using the keyboard
- The website is responsive and optimised for mobile
- Buttons give feedback that are clickable when hovered over
- All forms give feedback on user error

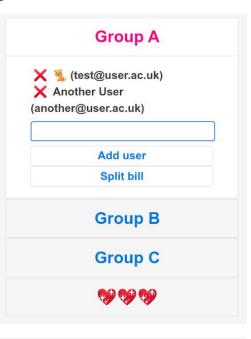


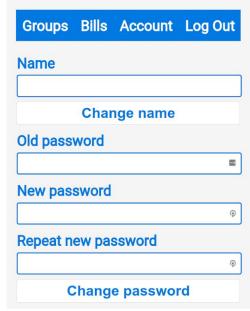


3. Additional functionality

- Bill description
- Person to person billing
- Users can be part of multiple groups
- Group requests: when a user is added to a group, they receive a joining request, which can be accepted or declined
- Users can leave groups
- Group owners can kick users out
- Email notifications
- Users can change their name
- Support for emoji (and UTF-8 in general)





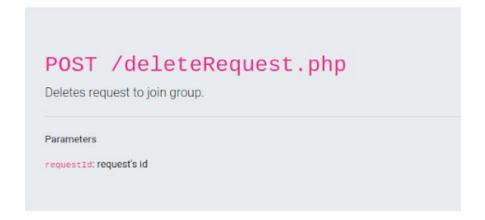


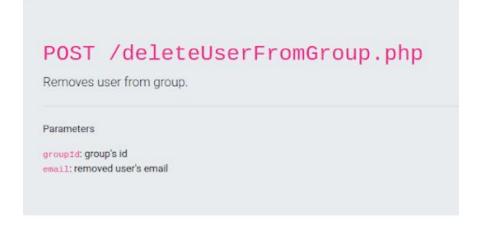
And the big feature: a REST API, which allows developers to interface with the bill splitter and do wonders such as task automation or creating a mobile application for the bill splitter.

The documentation of the API is available at

cs139.dcs.warwick.ac.uk/~u1925873/cs139/billsplitter/documentation.html.

Bootstrap was used when formatting the documentation.







4. Security

- Strings are escaped at frontend, backend and database levels (JavaScript, PHP and SQL)
- Users can access only resources they own
- Passwords are hashed and salted
- Passwords are at least 8 characters long
- Users can change their password