CS139 coursework Bill Splitter

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#### Main features:

login interface: "Log in", "Forget password?" and "Register".

### Register:

For the new user, they need to register. In the register page, they need to input a valid email address and this email should not be the same with other user's. The password has special requirement. If any condition is not met, the user will stay at the register page with a alert showing which requirement is not satisfied. Additionally, the necassary information will remain in the input box. After that, the bill splitter system will send an email with a verify code to the user, user need to put in a correct code to finish registration and forward to the bill list page directly. All passwords are stored securely.

## • log in:

After putting in the correct Email address and correct password, click "log in" button. If email address or password is wrong, the user will back to the login interface with an alert to tell user the email or password is wrong. If login success, the user will be transferred to the bill list page.

## • Forget password?:

If user forget the password or want to change it, click "Forget password?" button. Then user will need to input their registered email address and a new password. To detect if the user has this account, bill splitter system will send a verify code to this email address. The password can only be changed when the verify code is correct. And user will back to the login page with an alert telling "password changed".

#### Bill list interface:

#### add a new bill:

After filling the description and amount and select the people number(The number will always be less or equal to user numbers), the user can add a new bill. If any place is empty, there will be an alert. User can add people by click the bill name and choose someone to add in. When a person is added into a bill, user will be required to put in the money that the person need to pay. The money will be automatically calculated by suggestion algorithm. But user can still choose to change the money that they want to put in. When user finish adding person, if the actual bill amount is different with expectation, there will be an alert. If user is not satisfied with the details or wants to change the status of payment or money, user can click the "Edit" button to reset the value. If user add a wrong person, user can click "delete this person". If user add a wrong bill, user can click "delete this bill" in the bill detail page. After adding enough people into the bill and checking all the details, user can decide to send an email to notify these people in the bill. These people who receive the email can find the detail of the bill at their bill list page.

#### relevant bills:

At the bottom of the bill list interface, there is a bill table where will show all the bill contains the user. All the details including status, money and bill creator will be shown. And it will calculate the total not pay, total paid, bill amount from others, bill amount created by you and balance.

# Summary of additional features:

- Email notification(and also email verify)
- person to person splitting (click person button to add into the bill)
- proportional splitting(user can edit the money as they wish)
- Edit function(edit and delete)
- keep necessary information when register fail
- Dynamic money suggestion(final bill must be equal to expectation)