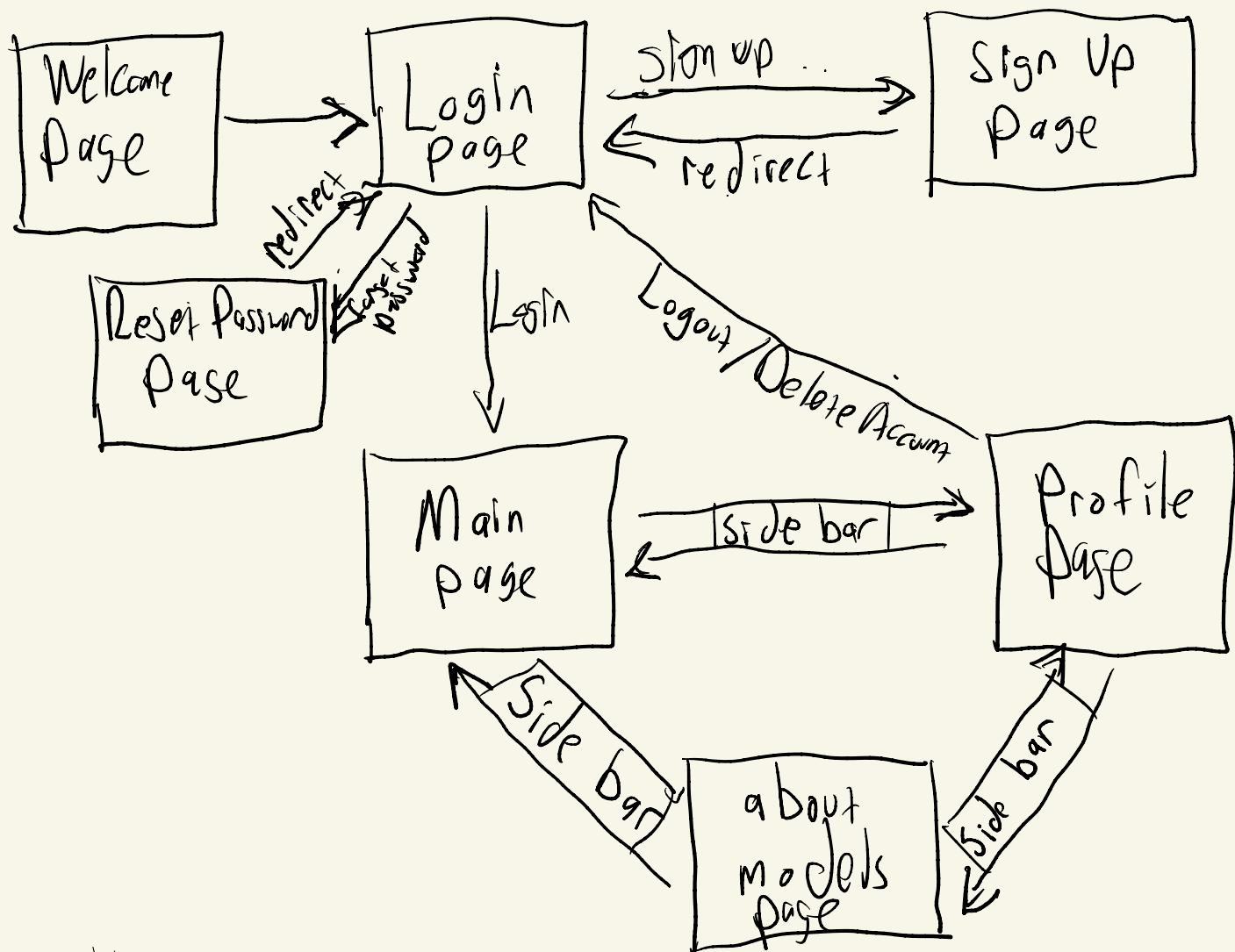


High Level Overview



Notes:

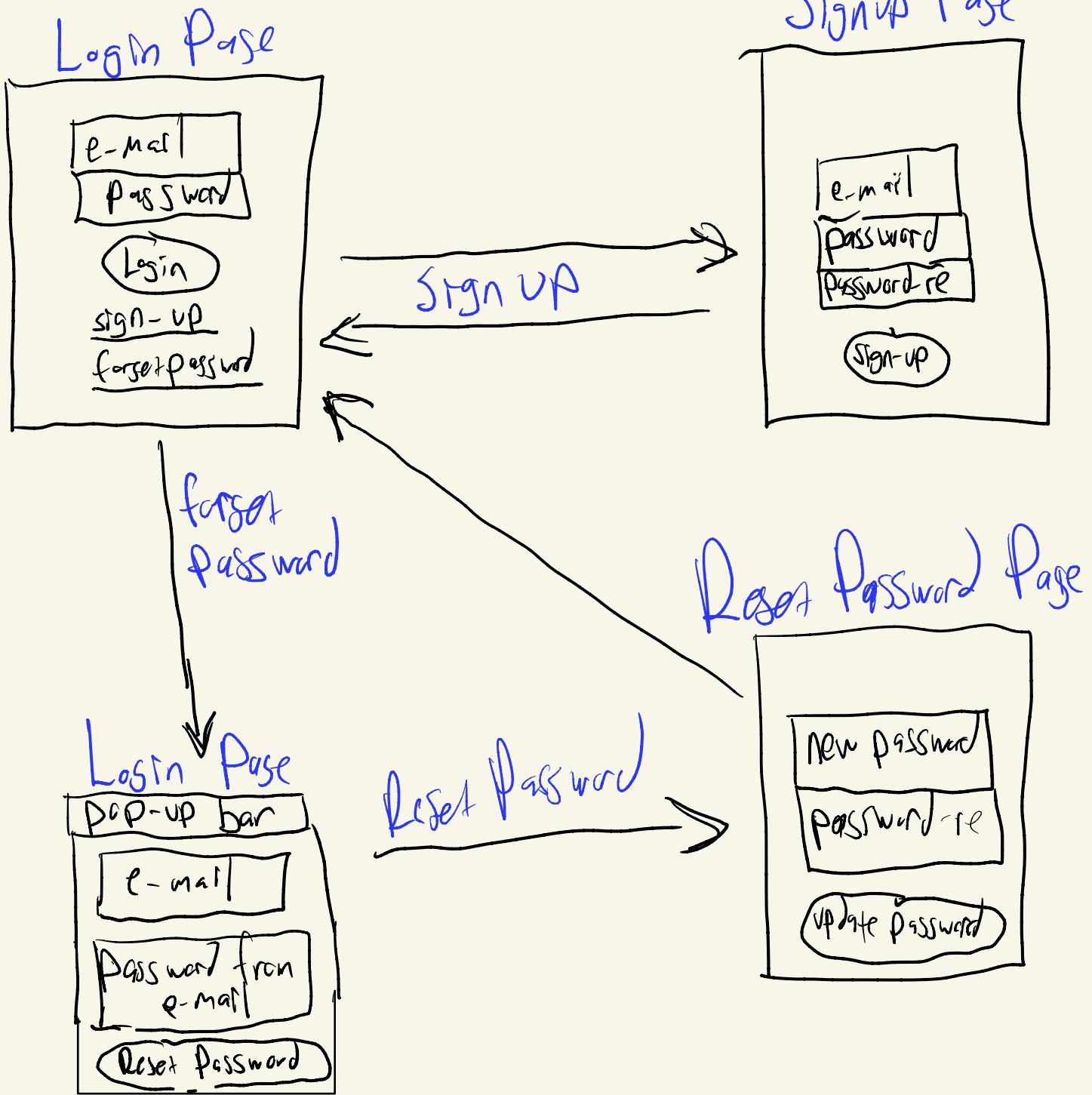
Button

→ hyperlink

☰ → sidebar

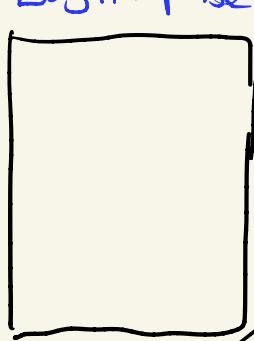
→ text bar
or
dropdown

Login - Sign Up - Reset Password



Math - Profile - About models

Login Page



Math Page

(Generated) Triple

Direct

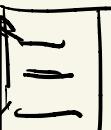
Top
→
Down

Clickable
Select

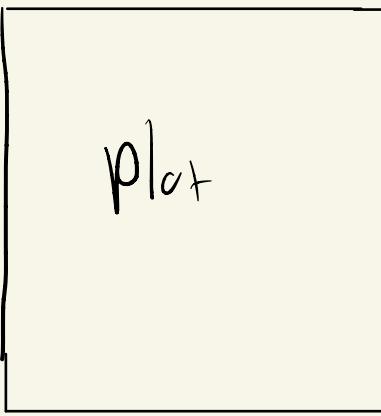
scroll
down

options
available
via
dropdown

(3), (4)



- Add symbol
- AAPL
- TSLA
- SNOW**
- OPTI
- ?
- ↓



plot

Historical Data Length # forecast days Model

Predict

User Specifications

- ① Historical Data
[3 months, 6 months, 1 year, 2 years]
- ② # forecast days
[15 days, 1 month, 3 month, 6 month]
- ③ Symbol
- ④ Model
[Model names...]

button

- Menu ~
- My Profile
 - About Models**

Profile Page

e-mail

Account : free
type

Upgrade
to premium

→ Social

Logout

Delete Account

About Models Page

- Model1: ---
- Model2: ---
- Model3: ---

Login Page

Side Bar

Login - Signup - Reset Password

- ① Login : ① check the existence of user in database → if email and pass exists → Log in
② Signup : ① get user data (e-mail, password, password-re) → else warning message
② check if e-mail already exists
↳ if exists → warning message
↳ if not
 ↳ check if password = password-re
 ↳ if yes → add user to db
 ↳ if not → warning message
- ③ Forget Password : ① use entered e-mail to send a password to it.
② check if entered reset password = sent password
 ↳ if yes → forget password page
 ↳ if not → warning message
- ④ Reset Password : ① set new password and password-re
 ↳ if old password = new password → warning message
 ↳ else → if password ≠ password-re → warning message
 else → update password in db.

Man - Profile - About Models

- ① Side bar → directs to my profile
 - ↳ directs to about models
- ② Main Page
 - ↳ Add Symbol (+) → get the requested symbol and try to fetch from Yahoo Finance
 - ↳ if present in Yahoo Finance → add to symbols List
 - else → warning message
 - ↳ Symbol List → get selected symbol
 - ↳ Historical Data → get data length and try to fetch from Yahoo Finance
 - ↳ If not enough data → check max available and warning message
 - ↳ end_date - today days done
 - else → fetch the requested amount
 - ↳ start date: end_date - historical data length
 - ↳ # Forecast Days → get # forecast days
 - ↳ Model → get selected model
 - ↳ Predict → Use selected model, # Forecast days, historical, symbol
 - ↳ If the user already trained it → get the outcome
 - else → train it and display message ("This might take a while")
 - show outcome on the plot
- ③ About Models Page → display models with their explanations from a source
- ④ Profile Page → display email, account type
 - ↳ upgrade to premium → get payment method ... soon
 - ↳ Logout → direct to login page
 - ↳ delete account → display a are you sure pop-up
 - ↳ If yes, delete from db and warning message
 - else → stay in profile page

Database Details

Table 1: Users

- user_id (Primary Key)
- e-mail (Unique)
- password
- account type ('basic', 'premium')

Table 2: Models

- model_id
- symbol
- model-type
- start date
- end date
- trading-model

→ if the
model-type-start date-and date-
symbol
combination exists (Mark the
the traded model to
prevent trading again and
again.