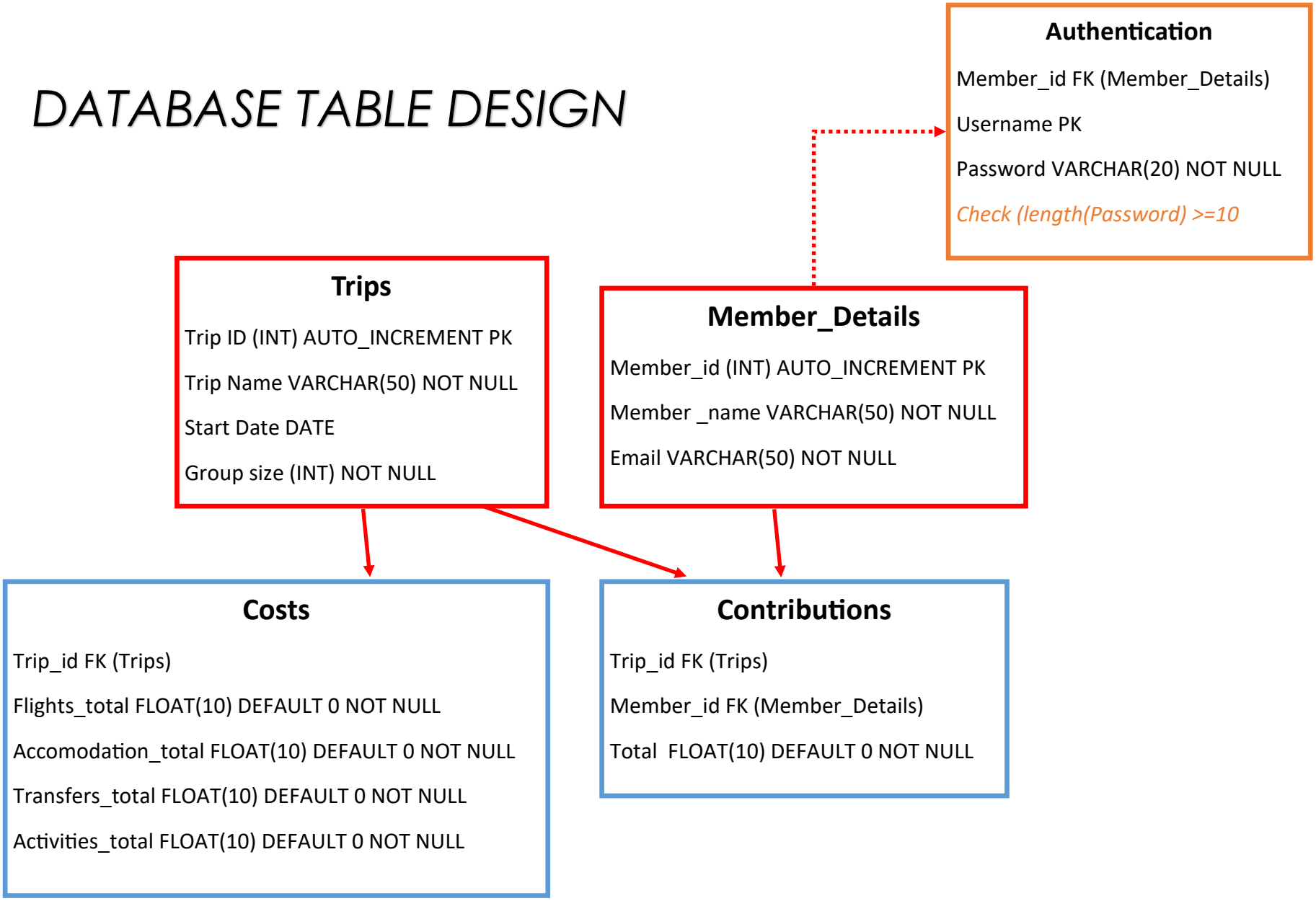
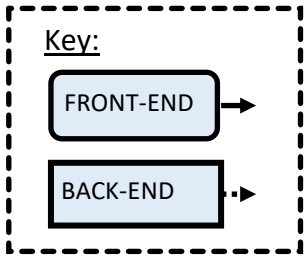
DATABASE TABLE DESIGN



WEBSITE LAYOUT DESIGN (1)



HOMEPAGE

- About information.
- **Link** to create account.
- **Link** to Login.

Create Account

- Link to **login** (already have an account?)
- Return to **Homepage**.
- Proceed with inputs…

Login

- Link to **create account**.
- Return to **Homepage**.
- Check Login Details are correct…

Inputs to insert into SQL (Create Account)

INSERT AUTHENTIFICATION

Username (Authentication)

Password (Authentication)

INSERT MEMBER DETAILS

Name (Member Details)

Email (Member Details)

— Submit, move on to **Login**

Error Handling (Create Account)

Does ‘username’ exist already?

Do inputs comply with constraints?

Database input checks (Login)

Username (Authentication)

Password (Authentication)

— Move to **Dashboard.**

Error Handling (Login)

Does ‘username’ exist?

Is ‘password’ a match? (forgotten passwords?)

Dashboard

(Continued on next PDF)

Example 1: www.budgetbuddy.com/

WEBSITE LAYOUT DESIGN (2)

DASHBOARD

- Log out (Return to **Homepage**).
- Overview of trips (can be clicked into).
- Imbed link to each **'trip_name'**
- Option to **add new trip**.

Database Queries (Dashboard)

'Trip_name' / 'member_id' (Trip/member_details join)

'Start_date' (Trips)

(repeat per trip attached to member_id)

Submit — Move to '**Trip Name**'

'Trip_Name'

(Continued on next PDF)

Add New Trip

- Option to return to **Dashboard.**
- Proceed with inputs...

Inputs to insert to SQL (Add New Trip)

INSERT TRIPS

Trip name* (Trips)

Start Date* (Trips)

Group Size* (Trips)

INSERT COSTS

Flights Total (Costs)

Accommodation Total (Costs)

Transfers Total (Costs)

Activities Total (Costs)

Miscellaneous Total (Costs)

INSERT CONTRIBUTIONS

Total Contributions (Contributions default 0)

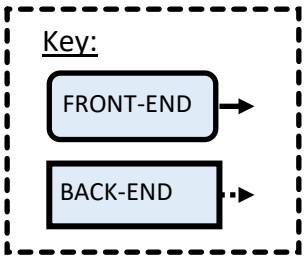
Submit — Move to **Dashboard**

Error Handling (Add New Trip)

Ensure all the values are inputted within their correct constraints (Value errors etc).

Behind the scenes (Add New Trip)

Ensure the Trips table has values inserted first, then take foreign key trip_id to add to the insert of the costs. Same for Contributions table (no user input though)).



Example 2 : www.budgetbuddy.com/dashboard

WEBSITE LAYOUT DESIGN (3)

‘Trip_Name’

- Option to return to **Dashboard.**
- Countdown to trip.
- Total Cost.
- Costs Breakdown.
- Total Contributions.
- Contributions Breakdown.
- Imbed link to **Add Contribution.**

Add Contribution

- Option to return to **Dashboard.**
- Proceed with inputs...

Database Queries (’Trip_Name’)

Start Date (Trips) Countdown

Sum all Costs (Costs)

Individual Cost (Sum costs/group size (Trips and Costs join))

Sum Contributions (Contributions, Group By trip_id)

Individual Contribution (Contribution, member_id)

Group remaining contributions (sum costs—sum contributions)

Individual remaining contributions (individual cost—contribution)

Inputs to insert into SQL (Add Contributions)

UPDATE CONTRIBUTIONS

Set Total = Total + user input

Submit — Move to **‘Trip_Name’**

Behind the scenes (Add Contribution)

Ensure the member_id id and trip_id are added coorectly (WHERE member_id = X and trip_id = Y)

Error Handling (Add Contribution)

Ensure all the values are inputted within their correct constraints (Value errors).

Key:

FRONT-END

BACK-END

Example 3: www.budgetbuddy.com/trip