Web Programming – SYST10199

Assignment 6:

Use session management to develop:
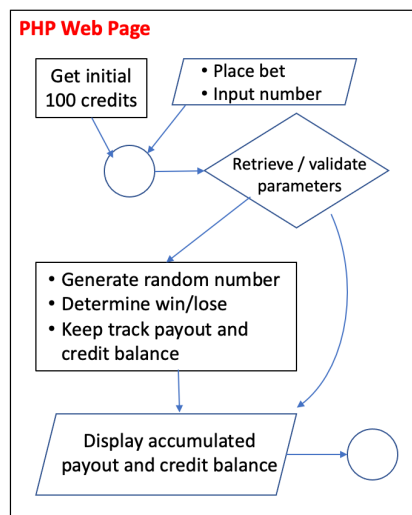
    a. A **one-page** application using **One-Page IPO architecture with Session Management**.

Or

    b. A **multi-page** application using **Two-Page IPO architecture with Session Management**.

a) **One-page** – A simple "One Spin Slot Machine" application:

- The game starts by user getting a one-time 100 credits.
- For every play, user places a bet (taken from the user's credit balance) and enters a number between 1 and 10.
- The application generates a random number between 1 and 10.
- User wins if the input matches the random number and the payout is twice the bet placed.
- The application keeps track and displays the **accumulated payouts** and **the credit balance** after each play.
- User can continue to play until the credit balance gets to zero.
- A "RESET" button to destroy the session and reset the game.

PHP Web Page

Get initial 100 credits

- Place bet
- Input number

Retrieve / validate parameters

- Generate random number
- Determine win/lose
- Keep track payout and credit balance

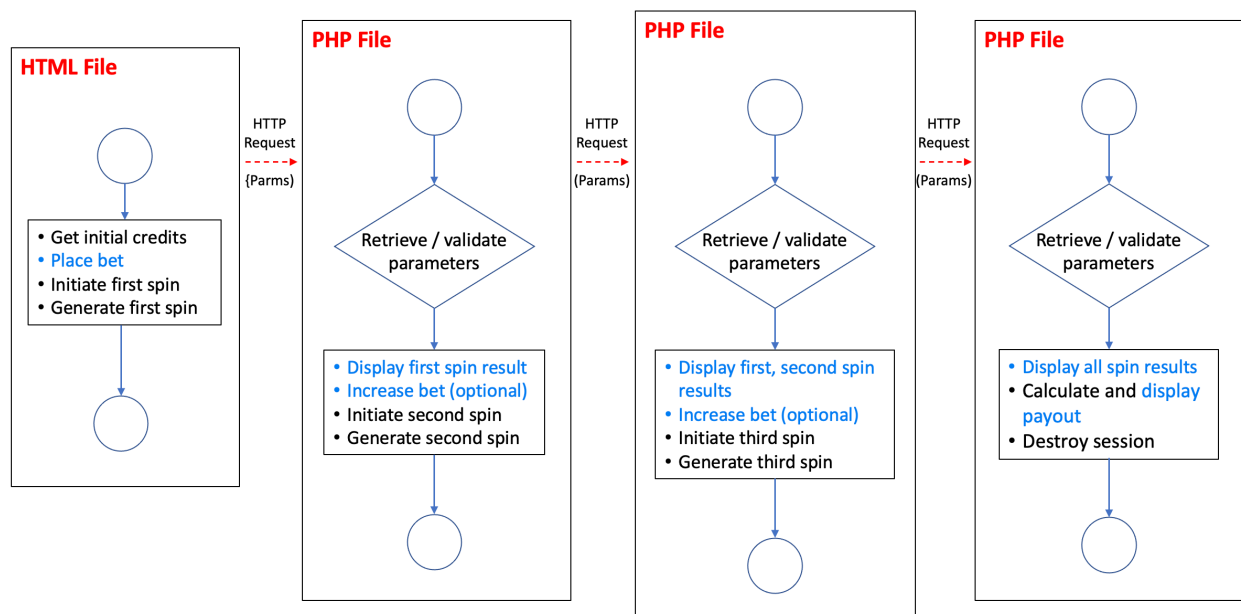Display accumulated payout and credit balance

b) **Multi-page** – A simple "Three Spins Slot Machine" application:

- The game starts by user getting a one-time 100 credits.
- Each game takes three spins consecutively.
- User starts the game by clicking the "PLAY" button, placing a bet (taken from the user's credit balance), and clicking the "SPIN" button to initiate the first spin.
- For each spin, the application generates a random number between 1 and 9; displays the number (for the second and third spins displays previous spin results); and continues onto the next spin upon clicking of the "SPIN" button by the user.
- For the second and third spins user can increase (NOT decrease) the bet.
- After the third and final spin the application calculates and displays the payout (see below) and destroy the session.

Payout Rules:

- All three numbers match – bet placed * 50.
- Two numbers match – bet placed * 20.

HTML File

- Get initial credits
- Place bet
- Initiate first spin
- Generate first spin

HTTP Request
- - - - ▶
{Parms}

PHP File

Retrieve / validate parameters

- Display first spin result
- Increase bet (optional)
- Initiate second spin
- Generate second spin

HTTP Request
- - - - ▶
(Params)

PHP File

Retrieve / validate parameters

- Display first, second spin results
- Increase bet (optional)
- Initiate third spin
- Generate third spin

HTTP Request
- - - - ▶
(Params)

PHP File

Retrieve / validate parameters

- Display all spin results
- Calculate and display payout
- Destroy session

Submission:

- Submit a zipped copy of the assignment folder to the **Assignment #6** Dropbox on SLATE (**e-mail submissions will NOT be accepted**).
- Upload your files to your cPanel account.
- Provide the link, login/password (if applicable) to your cPanel program in the comments area of the Dropbox. **50% will be deducted for missing cPanel link**.
- Assignment can be submitted for up to 3 days after the due date with 10% penalty per day. After 3 days the assignment will no longer be accepted.
- Only the last submission is marked.
- This assignment must be completed **individually**. Any attempt at cheating on the assignment will result in a grade of zero. Please refer to the Academic Dishonesty Policy.