

1. Login Screen

ADVANCED TIC TAC TOE	
[Username]	<input type="text"/>
[Password]	<input type="password"/>
<input checked="" type="checkbox"/> Remember Me	
[LOGIN]	[SIGN UP]
[X CLOSE]	





- Features:
- - New CLOSE button terminates application
- - Input validation for empty fields
- - 'Remember Me' saves username (not password)

2. Signup Screen

SIGN UP	
[Username]	<input type="text"/>
[Email]	<input type="text"/>
[Password]	<input type="password"/>
[Confirm PW]	<input type="password"/>
<div>[REGISTER] [BACK]</div>	

- Validation Rules:
 - - Password match check
 - - Email format validation
 - - Username availability check

3. Main Menu

MAIN MENU	
[]	Play vs AI
[]	Play vs Player
[]	Game History
[]	Logout

4. AI Difficulty Selection

SELECT AI DIFFICULTY	
[EASY]	- Random moves
[MEDIUM]	- Blocks wins
[HARD]	- Unbeatable
[BACK]	

5. Player vs Player Setup (NEW)

PLAYER VS PLAYER SETUP	
Player 1 (X) : [_____]	
Player 2 (O) : [_____]	
[START GAME]	[BACK]

6. Game Board

6.1 vs AI Mode



Your Turn (X)		AI: HARD
<div>X O</div> <div>— — —</div> <div> X </div> <div>— — —</div> <div>O </div>		
[Restart]	[Save & Exit]	[Help]

6.2 PvP Mode




Alice's Turn (X) Bob (O)		
<div><div>X O</div><div><div></div><div>X</div><div></div></div><div>O </div></div>		
[Restart]	[Save & Exit]	[Help]

- 6.1 vs AI Mode
- 6.2 PvP Mode (Names update dynamically)




7. Game Result Screen (UPDATED)

GAME OVER!	
 YOU WIN! (vs AI: HARD)	
Moves: X-5 O-4	
Time: 2m 15s	
<div><div></div><div>PLAY AGAIN</div></div>	
<div><div></div><div>MAIN MENU</div></div>	
<div><div></div><div>GAME HISTORY</div></div>	

8. Game History Dashboard

GAME HISTORY		
Date	Opponent	Result
4/25	AI (Hard)	 Win
4/24	Bob	 Loss
4/23	AI (Easy)	 Tie
<div>[Replay] [Delete] [Back]</div>		

9. Replay Viewer

REPLAYING GAME #123 (4/25)
<div><div>X</div><div></div><div></div><div></div><div>O</div><div></div><div></div><div></div><div>X</div></div>
<div><div> Play</div><div> Pause</div><div> Stop</div></div>

Screen 1: Login

Code	Description
GUI-101	Display username/password fields with "Remember Me" checkbox
GUI-102	Validate inputs (non-empty, password \geq 8 chars)
GUI-103	Buttons: LOGIN (\rightarrow Main Menu), SIGN UP (\rightarrow Screen 2), CLOSE (quit app)

Screen 2: Signup

Code	Description
GUI-201	Fields: Username, Email, Password, Confirm Password
GUI-202	Real-time validation for email format and password match
GUI-203	Buttons: REGISTER (auto-login \rightarrow Main Menu), BACK (\rightarrow Login)

Screen 3: Main Menu

Code	Description
GUI-301	Buttons with icons: <ul style="list-style-type: none">-  Play vs AI (\rightarrow Screen 4)-  Play vs Player (\rightarrow Screen 5)-  Game History (\rightarrow Screen 7)-  Logout (\rightarrow Login)

Screen 4: AI Difficulty

Code	Description
GUI-401	Radio buttons: <ul style="list-style-type: none">- EASY (random moves)- MEDIUM (blocks 1 move ahead)- HARD (minimax algorithm)
GUI-402	BACK (→ Main Menu), START (→ Screen 6)

Screen 5: PvP Setup

Code	Description
GUI-501	Input fields: Player 1 (X), Player 2 (O)
GUI-502	START button (disabled if names empty) → Screen 6

Screen 6: Game Board

Code	Description
GUI-601	PvP Mode: Show [Player1]'s Turn (X) / [Player2]'s Turn (O)
GUI-602	AI Mode: Show Your Turn (X) / AI Thinking... (O)
GUI-603	Action buttons: RESTART, SAVE & EXIT (→ Main Menu), HELP




Screen 7: Game Result

Code

GUI-701




Description

Display:

- Outcome ( You Win!/ You Lose!/ Tie!)
- Stats (Moves: X-5/O-4, Time: 2m 15s)

GUI-702

Buttons:

-  PLAY AGAIN (→ Game Board with same settings)
-  MAIN MENU (→ Screen 3)
-  HISTORY (→ Screen 8)

Screen 8: Game History

Code

GUI-801

Description

Table columns: DATE, OPPONENT, RESULT ( /  / )

GUI-802

Sort/filter by date, opponent type (AI/Player), result

GUI-803

Buttons: REPLAY (→ Screen 9), DELETE, BACK (→ Main Menu)

Screen 9: Replay Viewer

Code

Description

GUI-901

Controls: ► PLAY (animate moves), || PAUSE, ■ STOP

GUI-902

Display move timestamps (e.g., "Turn 3: X at (1,1) - 00:45")