

Place a bid-Fully Dressed Use Case

Primary Actor: Human Player

Stakeholders and Interests:

- *Human Player:* The player wants to place a bid.
- *Computer player:* An algorithm places the bid for the computer player depending on the computer player's difficulty level.
- *IT staff:* Ensure the bids are placed without any errors according to game rules.

Preconditions:

- The target chip is generated on the centerpiece so that the player can determine a set of moves required to move the robot to the target chip.
- Player has determined their bid.

Success Guarantee (Postconditions):

- The player's bid has been recorded. If this player is the first player to make a bid in this round, the timer is started and all other players have to place their bid within 60 seconds.

Main Success Scenario:

1. The player wants to place their bid.
2. The system displays the option to bid.
3. The player places their bid.
4. The system records their bid.
5. The system starts the timer if this player is the first player to bid.[Alt1:The player is not the first to bid.]

6. The system provides the user a chance to improve their bid.
7. The player decides to not change the bid. [Alt 2:The player improve their bid]
8. The system stops the timer and the betting aspect ends. [Use case ends]

Alternative Flows:

Alt1: The player is not the first to bid

1. Flow resumes at Main Success Scenario 6.

Alt2:The player improves their bid

1. The new bid is recorded.
2. Flow resumes at Main Success Scenario Step 7.

Exceptions:

- If at any time the system is unable to retrieve, record or provide details then the system informs the user of the problem and the use case ends.

Special Requirements:

- Colours and sizes of text fonts used must provide - or be able to provide - for the visually impaired (e.g. colour blindness).

Open Issues:

- How to implement special accessibility features for the visually impaired?
- How to implement failure to update?
- How to handle issues where multiple players have the same name?
- How to update the record of bids?