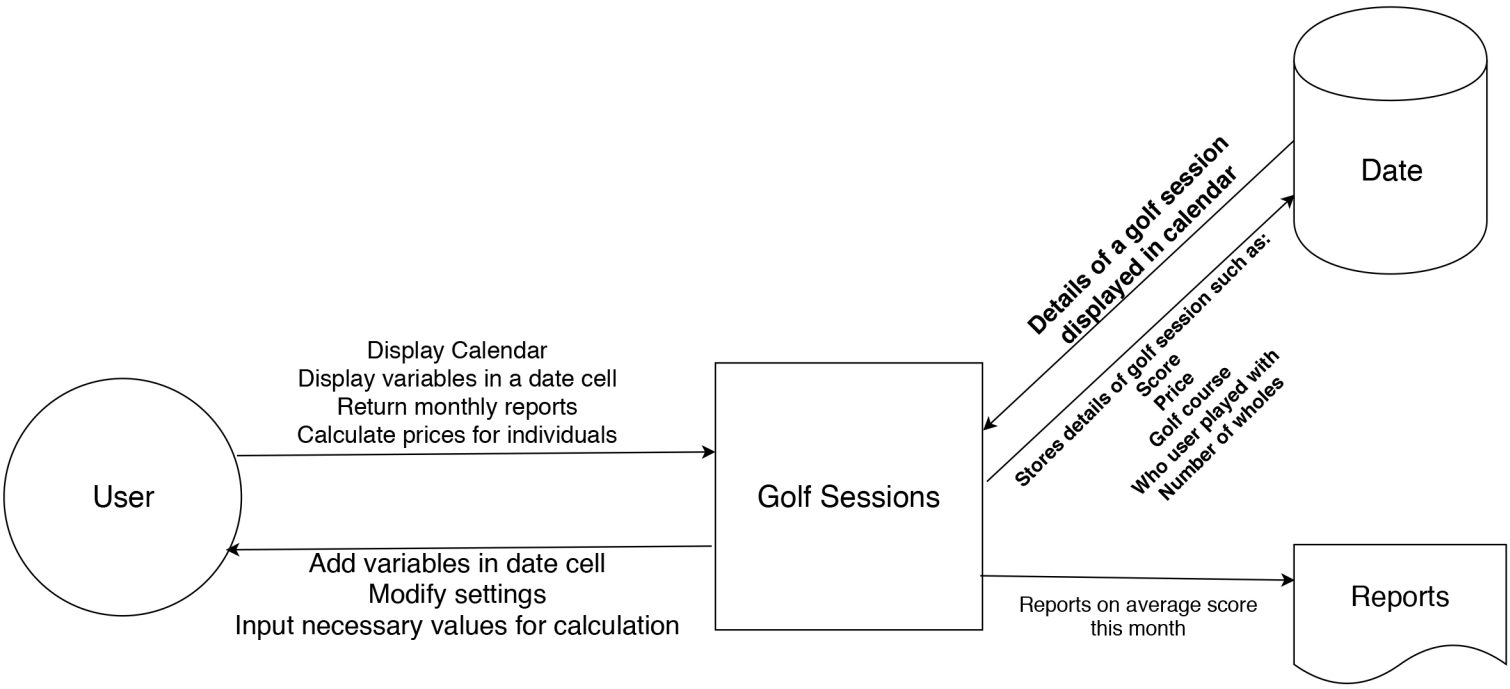
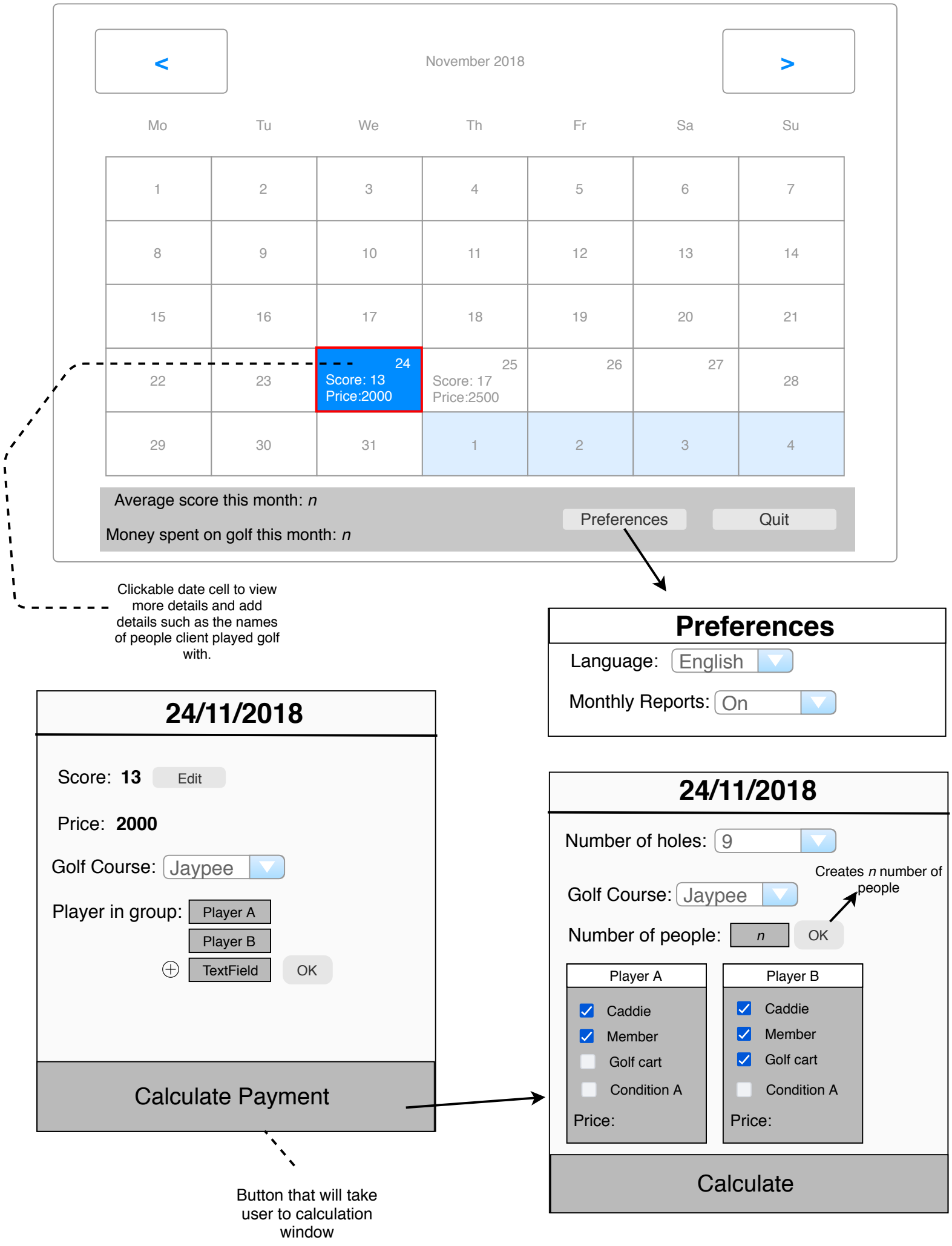

User
Display Calendar
Display variables in a date cell
Return monthly reports
Calculate prices for individuals
Add variables in date cell
Modify settings
Input necessary values for calculation
Golf Sessions
Details of a golf session displayed in calendar
Stores details of golf session such as:
Score
Price
Golf course
Who user played with
Number of wholes
Date
Reports on average score this month
Reports


<
November 2018
>
Mo
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1
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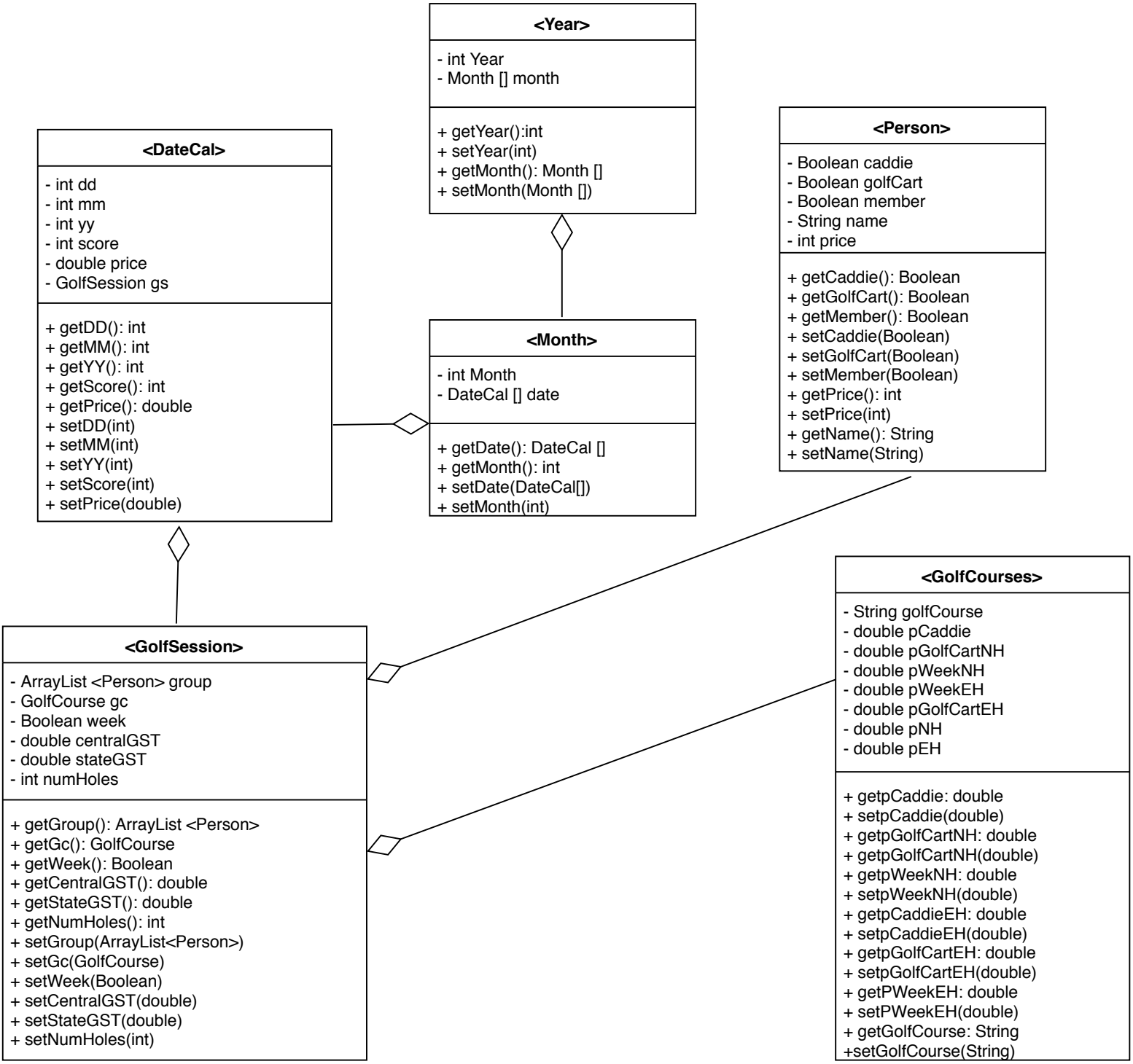
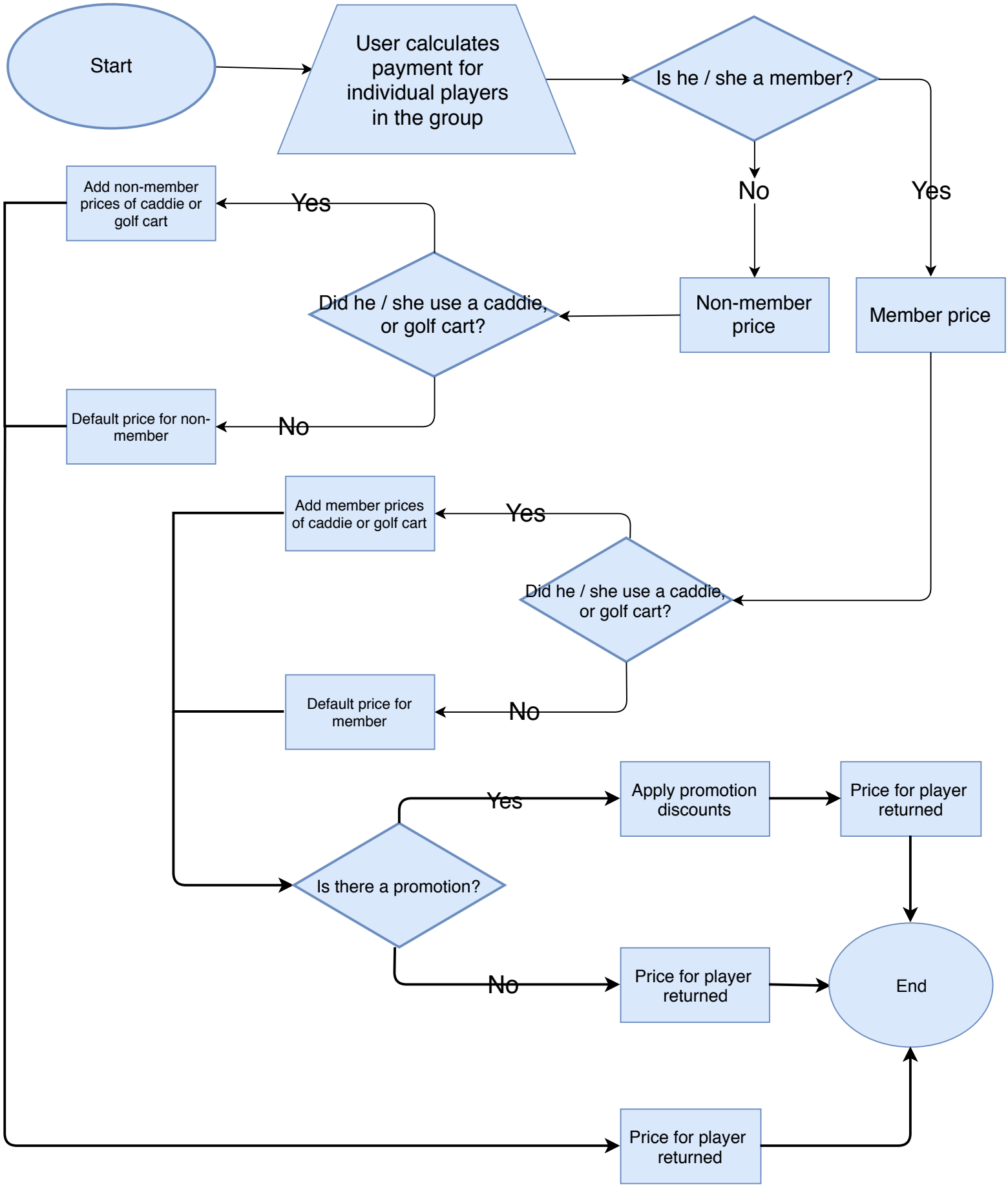
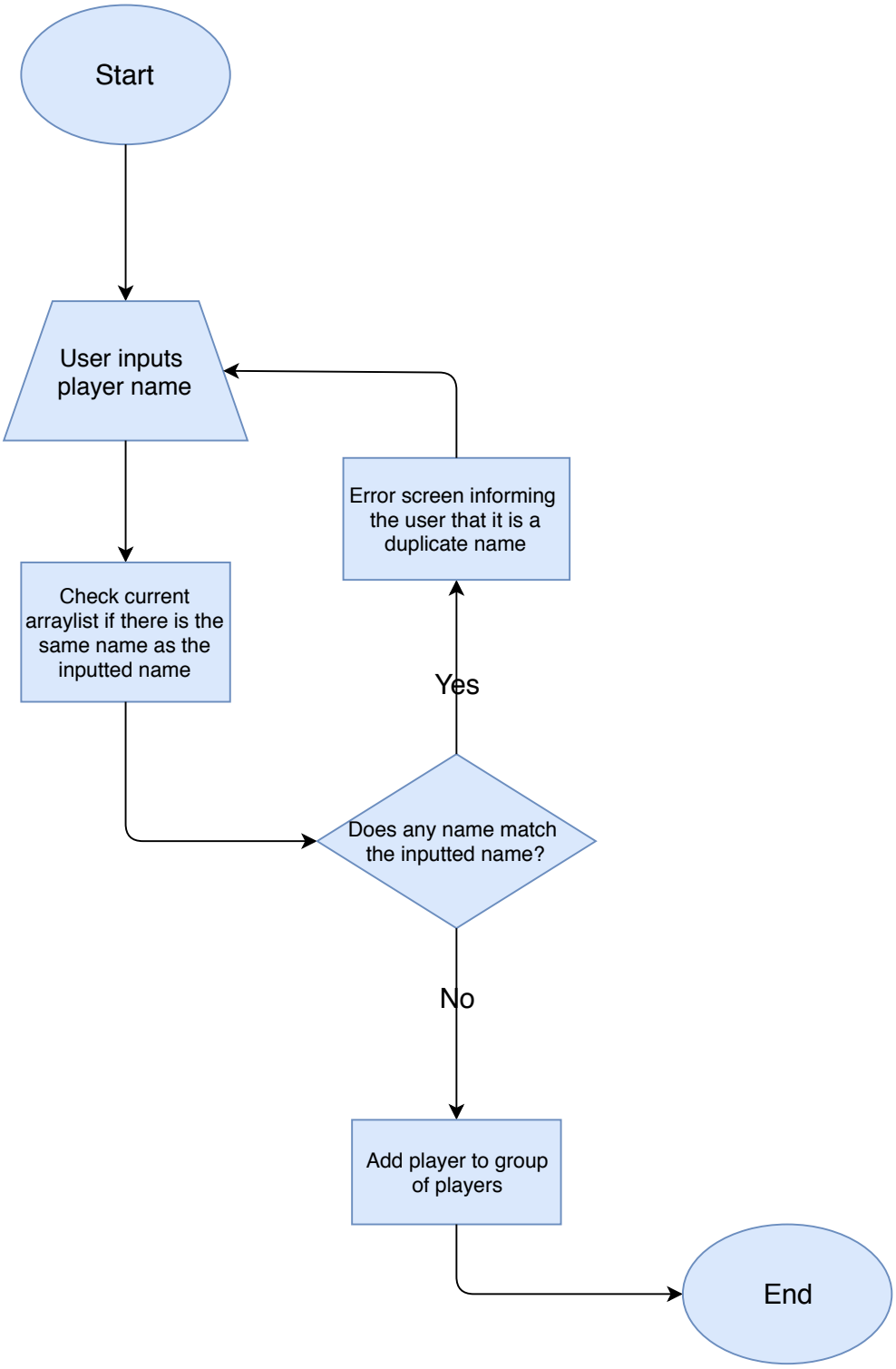
13
14
15
16
17
18
19
20
21
22
23
24
Score: 13
Price:2000
25
Score: 17
Price:2500
26
27
28
29
30
31
1
2
3
4
Average score this month: n
Money spent on golf this month: n
Preferences
Quit
Clickable date cell to view more details and add details such as the names of people client played golf with.
Preferences
Language: English
Monthly Reports: On
24/11/2018
Score: 13
Edit
Price: 2000
Golf Course: Jaypee
Player in group:
Player A
Player B
TextField
OK
Calculate Payment
Button that will take user to calculation window
24/11/2018
Number of holes: 9
Golf Course: Jaypee
Number of people: n
OK
Creates n number of people
Player A
Caddie
Member
Golf cart
Condition A
Price:
Player B
Caddie
Member
Golf cart
Condition A
Price:
Calculate


<Year>
- int Year
- Month [] month
+ getYear():int
+ setYear(int)
+ getMonth(): Month []
+ setMonth(Month [])
<DateCal>
- int dd
- int mm
- int yy
- int score
- double price
- GolfSession gs
+ getDD(): int
+ getMM(): int
+ getYY(): int
+ getScore(): int
+ getPrice(): double
+ setDD(int)
+ setMM(int)
+ setYY(int)
+ setScore(int)
+ setPrice(double)
<Month>
- int Month
- DateCal [] date
+ getDate(): DateCal []
+ getMonth(): int
+ setDate(DateCal[])
+ setMonth(int)
<Person>
- Boolean caddie
- Boolean golfCart
- Boolean member
- String name
- int price
+ getCaddie(): Boolean
+ getGolfCart(): Boolean
+ getMember(): Boolean
+ setCaddie(Boolean)
+ setGolfCart(Boolean)
+ setMember(Boolean)
+ getPrice(): int
+ setPrice(int)
+ getName(): String
+ setName(String)
<GolfSession>
- ArrayList <Person> group
- GolfCourse gc
- Boolean week
- double centralGST
- double stateGST
- int numHoles
+ getGroup(): ArrayList <Person>
+ getGc(): GolfCourse
+ getWeek(): Boolean
+ getCentralGST(): double
+ getStateGST(): double
+ getNumHoles(): int
+ setGroup(ArrayList<Person>)
+ setGc(GolfCourse)
+ setWeek(Boolean)
+ setCentralGST(double)
+ setStateGST(double)
+ setNumHoles(int)
<GolfCourses>
- String golfCourse
- double pCaddie
- double pGolfCartNH
- double pWeekNH
- double pWeekEH
- double pGolfCartEH
- double pNH
- double pEH
+ getpCaddie: double
+ setpCaddie(double)
+ getpGolfCartNH: double
+ getpGolfCartNH(double)
+ getpWeekNH: double
+ setpWeekNH(double)
+ getpCaddieEH: double
+ setpCaddieEH(double)
+ getpGolfCartEH: double
+ setpGolfCartEH(double)
+ getPWeekEH: double
+ setPWeekEH(double)
+ getGolfCourse: String
+setGolfCourse(String)

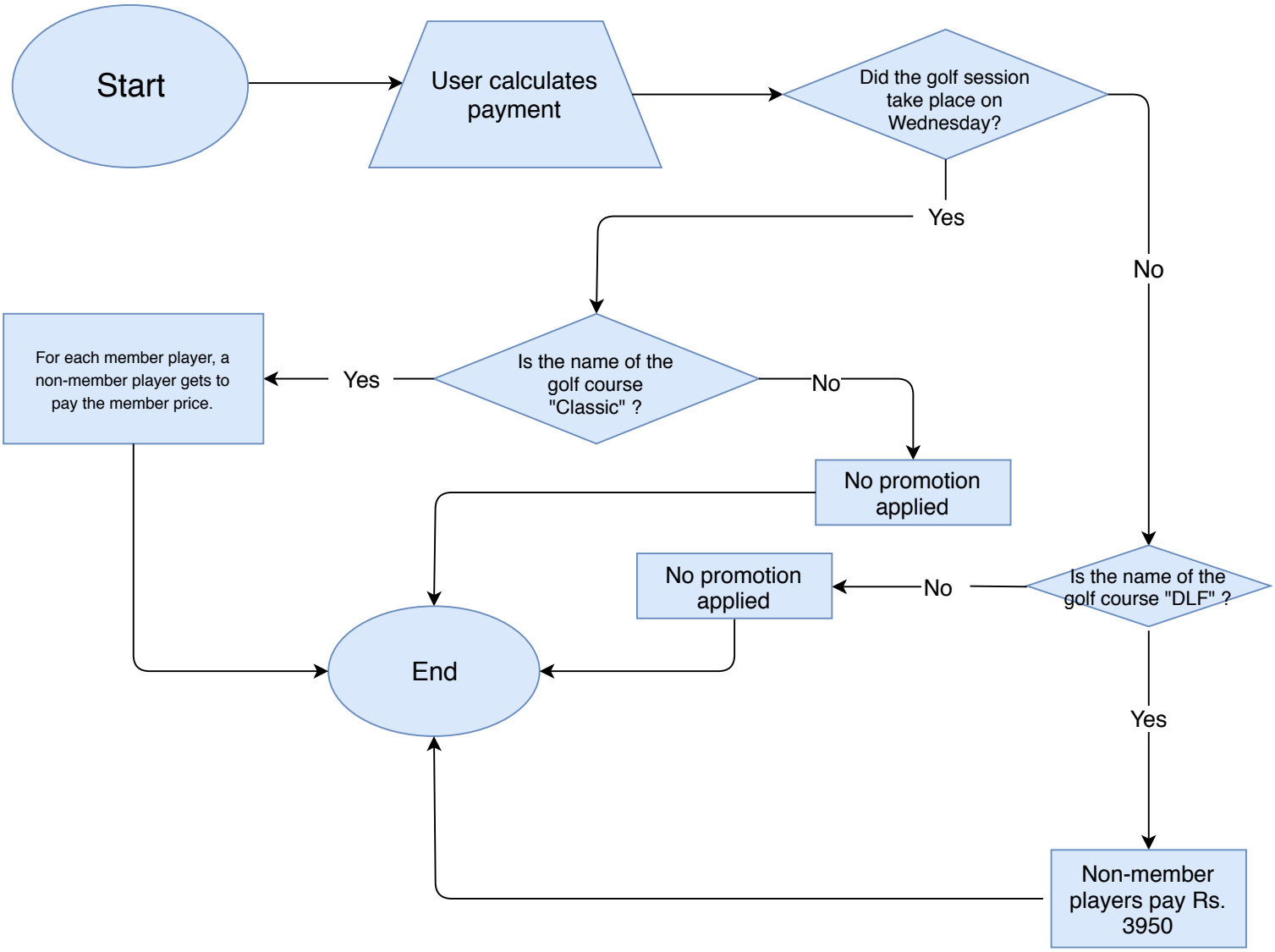
Algorithm Flowchart 1: Calculating payment



Algorithm Flowchart 2: Checking if the inputted player name already exists



Algorithmic Flowchart 3: Payment calculation on promotion applicable days



Criterion B: Test Plan

Test	How to test	Intended result
All buttons work properly	Click all buttons to make sure they work as intended	All buttons perform intended function
Adding / deleting details of golf session	Click on individual date cell to add or delete details about the golf session on the particular date.	Details of a golf session that appear on the corresponding date cell can be added / deleted.
Monthly reports are generated	Monthly reports of average score, and money spent on golf is correctly displayed on the calendar.	Monthly reports are correctly generated.
Display day wise details for a month	Change date	Current month updates
Add duplicate names	Enter duplicate names	Display an error message
Payments calculated	Select a date, populate group then click ‘Payment’	The price a player has to pay is displayed
Client can change the language of calendar to Korean	Go to the settings frame, and click ‘Korean’	English calendar is disposed and the Korean calendar is opened
Calculation of average score for the month	Add a golf session with score in a date	Details of program completed
Promotion applied to price	Add a golf session on Wednesday with golf course named “Classic”, or add a golf session on Thursday with golf course named “DLF”	Promotion sale applied to price