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| IT PAT  2022 | Joshua Le Roux  Grade 11 |

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# Task 1

## A: Define the Task

An interschools chess tournament is being hosted by an external organiser. It is an elimination tournament with 4 schools competing, each with 2 representing players. The tournament must follow a fixed schedule, with an individual winner being decided at the end.

In order to assist the organiser in keeping track of the tournament, we have been tasked with creating and developing an interactive tournament planner and updater. The program should make the organizing, and the hosting of the event easier by providing a simple, understandable, yet functional planner.

The program should allow the organizer or game officials to edit player information, choose the winners from each game and automatically push the winners through to the next round until a winner is determined in the finals. The program should also allow the organizer and game officials to see the tournament layout and various game times.

## B: User Story and Acceptance Test

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Who** | | **What** | | **Why** | | |
| *As a(n)…* | Organizer | *I want to…* | Edit players  Input winners | | *So that…* | Any changes to player details can be reflected  Update the database and radio group index items. |
| Game officials | Input winners  View tournament structure  View game times | | Update the database and radio group index items.  They can understand how the tournament will work.  They know when they need to official the various games. |

# Task 2: Design the Database

|  |  |  |
| --- | --- | --- |
| **tblplayers** | | |
| **playerid** | AutoNumber | Long Integer |
| **firstname** | Short Text | 25 |
| **surname** | Short Text | 30 |
| **school** | Short Text | 20 |

|  |  |  |
| --- | --- | --- |
| **tblquarters** | | |
| **gameid** | Number | Long Integer |
| **player1** | Number | Long Integer |
| **player2** | Number | Long Integer |
| **gamedate** | Date/Time | Medium Date |
| **gametime** | Date/Time | Short Time |
| **winnerid** | Number | Long Integer |

|  |  |  |
| --- | --- | --- |
| **tblsemis** | | |
| **gameid** | Number | Long Integer |
| **player1** | Number | Long Integer |
| **player2** | Number | Long Integer |
| **gamedate** | Date/Time | Medium Date |
| **gametime** | Date/Time | Short Time |
| **winnerid** | Number | Long Integer |

|  |  |  |
| --- | --- | --- |
| **tblfinals** | | |
| **gameid** | Number | Long Integer |
| **player1** | Number | Long Integer |
| **player2** | Number | Long Integer |
| **gamedate** | Date/Time | Medium Date |
| **gametime** | Date/Time | Short Time |
| **winnerid** | Number | Long Integer |

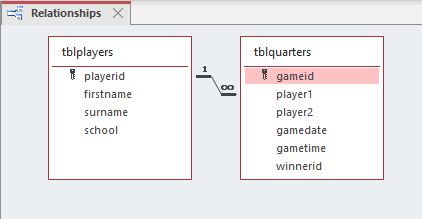


Figure : Link between tblplayers and tblquarters

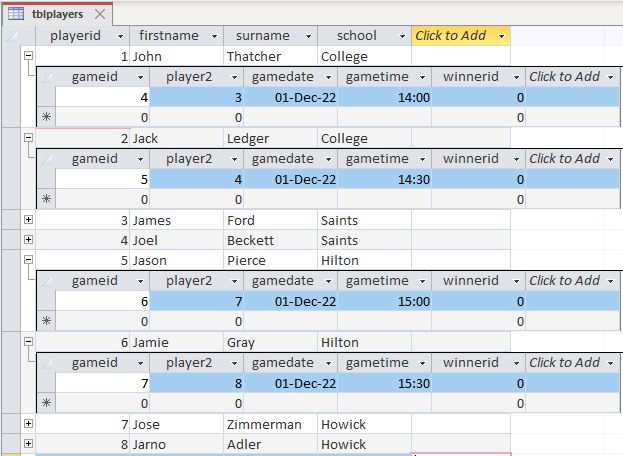


Figure 2: playerid's linked to tblquarters games

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SyORXhpZgAATU0AKgAAAAgACAALAAIAAAAmAAAIegESAAMAAAABAAEAAAExAAIAAAAmAAAIoAEyAAIAAAAUAAAIxgE7AAIAAAAPAAAI2odpAAQAAAABAAAI6pydAAEAAAAeAAARbuocAAcAAAgMAAAAbgAAEYwc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjExOjExIDE3OjE3OjExAEpvc2h1YSBMZSBSb3V4AAAABpADAAIAAAAUAAARRJAEAAIAAAAUAAARWJKRAAIAAAADMTUAAJKSAAIAAAADMTUAAKABAAMAAAABAAEAAOocAAcAAAgMAAAJOAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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VrtLZH0V8UP+UY3hP/ALc//Sg1+f7feav0W/aA8J6v4E/4J4aH4f12yNhqti9nFcW7OreW/nHjcvy1+dPC5BXNeXmMXGdO+/Kj7zguUa2Fxbg7xdabTWq1PuX9q79lH4qfE34+eJvE3hvwyupaJfLaeRcf2laRb/LtIY2+WSVW+8rfw15N/wAMI/HL/oSV/wDB1Yf/AB+vnGivT/txf8+/x/4B8Q/CqTd/rn/kn/2x9Hf8MI/HL/oSV/8AB1Yf/H6P+GEfjl/0JK/+Dqw/+P1840Uf26v+ff4/8AX/ABCmX/QZ/wCSf/bH0d/wwj8cv+hJX/wdWH/x+j/hhH45f9CSv/g6sP8A4/XzjRR/bq/59/j/AMAP+IUy/wCgz/yT/wC2Po7/AIYR+OX/AEJK/wDg6sP/AI/R/wAMI/HL/oSV/wDB1Yf/AB+vnGij+3V/z7/H/gB/xCmX/QZ/5J/9sfR3/DCPxy/6Elf/AAdWH/x+j/hhH45f9CSv/g6sP/j9fONFH9ur/n3+P/AD/iFMv+gz/wAk/wDtj6O/4YR+OX/Qkr/4OrD/AOP0f8MI/HL/AKElf/B1Yf8Ax+vnGij+3V/z7/H/AIAf8Qpl/wBBn/kn/wBsfR3/AAwj8cv+hJX/AMHVh/8AH6P+GEfjl/0JK/8Ag6sP/j9fONFH9ur/AJ9/j/wA/wCIUy/6DP8AyT/7Y+jv+GEfjl/0JK/+Dqw/+P0f8MI/HL/oSV/8HVh/8fr5xoo/t1f8+/x/4Af8Qpl/0Gf+Sf8A2x9dfCH9jL4weFfiz4K1nU/CS2um6drdjeXNwNVsn8qGO4jZm2rMWb5V/hrwL4+/8l4+I3/Yy6l/6VSVwVFebjsx+uRUeW1vM+34W4NfDeInXdf2nMrW5bdb92FFFFeMfpgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAC/w19EfsYf8hj4t/wDZO9X/AJw187lt1fRH7GX/ACGfi1j/AKJ3q/8AOKvTy3/eoHxPGeuQ4r0X5o4uiiiv0LQ/jXUK6X4aata+H/iN4V1S/m8ixsdWtLm4k2s3lxrMrM21fm+6tc1RRoGp1HxU1q08SfE/xfqunTfatP1DWby7tp9rL5kckzMrbW+Zflb+KvQbP4keF7X4G+BdBvW/tK+0vxU2qahpPlN+8tdv95l2tu+7t3V4tRRoGp9v2/x/8FQ/EjUvEs/xb1i80O+tJrez8Lppt1HbWO6FivmL/q227dq7VZtzr/DXK/sh+MNOi+HHiv8A4SO1a7sPBFwvimwZ/m8ubyZI/L/2fm2sq/3t1fJVb+m+O9b0nwfqvhizvvI0TVpo5r62WGP980bbo90m3d8rfw7ttGgansPwb+OUVr4d8deG/EXivVPCN14iu11S38TaWkjSW91u3S+YsbK22T5fu/7VVfE3jLS7LXPBzTfFzxB8Q1s9ahvbr7bDdraWsMbL8yrMzM0n3vur93d/wLwmijQNTu/jp4m03xl8YPFmuaNcfa9Nvr5p7eby2j8xf721trV13wR8ceF7P4dePPBHiLVrjwm3iFbdo9fgtWuVVY23NDIsfzbW/wDZ2/4F4tRRoGp7x4y8b+EfCvwEk+HPh/xNN46ubzVl1Fr1rGS0g0+NV+7Gsnzbmb/gPzN/wLweiijQNQooooug1Pbv2WvEV/4OvPihrelzeRqWm+BdTvLaRlDbJo3gZW2n5W+Za4v/AIeA/HIIP+KqhA/7Bdt/8brov2f8/wBkfGTH/RPNX/lFXyhuJULXy+b4ipTlH2cmvwP3Xw3ynAY+hiHjKUaji1a6T/M9j+JX7WXxO+L3hefw74p1yHUdImkjkaFbGGL5lbcvzKqt2rx0fO+GbFMor5ipWnVlzTd3ax++4TA4bAU/ZYWmoRveyVl+AUUUVidwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADv4a9g/Zp+KXhr4UeKPE1x4rttUudH1zw7daFJ/Y8cbXMfnPHlh5jKv3Ub+98235a8dorWlVlRmpx6HmZjl9HNMLPC1/hkraH05/wm37Nf/Pt8Vv8Aym/40f8ACbfs1/8APt8Vv/Kb/jXzHRmvX/tnE+R+e/8AENsk/vff/wAA+nP+E2/Zr/59vit/5Tf8aP8AhNv2a/8An2+K3/lN/wAa+Y80Zo/tnFeQf8Q2yT+99/8AwD6c/wCE2/Zr/wCfb4rf+U3/ABo/4Tb9mv8A59vit/5Tf8a+Y80Zo/tnFeQf8Q2yT+99/wDwD6c/4Tb9mv8A59vit/5Tf8aP+E2/Zr/59vit/wCU3/GvmPNGaP7ZxXkH/ENsk/vff/wD6c/4Tb9mv/n2+K3/AJTf8aP+E2/Zr/59vit/5Tf8a+Y80Zo/tnFeQf8AENsk/vff/wAA+nP+E2/Zr/59vit/5Tf8aP8AhNv2a/8An2+K3/lN/wAa+Y80Zo/tnFeQf8Q2yT+99/8AwD6c/wCE2/Zr/wCfb4rf+U3/ABo/4Tb9mv8A59vit/5Tf8a+Y80Zo/tnFeQf8Q2yT+99/wDwD6c/4Tb9mv8A59vit/5Tf8aP+E2/Zr/59vit/wCU3/GvmPNFH9s4ryD/AIhtkn977/8AgH1ZZ/G74J+C/DPjW38JWXxAfV9e8O3uhp/bSWL20YnQbWby3VvvKv8Ae+Xd8tfKy/u25FMorgxOLqYtp1eh9bkXDuC4ehOGCv7zvqFFFFcR9QFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//Z)

Figure 3: Tournament structure

# Task 3: Navigation/Description of Flow Diagram

\*All pages have buttons that link back to home.

# Task 4: Data Dictionary

|  |  |  |
| --- | --- | --- |
| **Task** | **Object (Component)** | **Event (Procedure)** |
| Undo all player changes. | Text file | Once edits have been made to the players list, if all edits are needing to be removed (reset to default), the user can restore the original player list from the text file. |
| Store player details. | Array | Extracted player details are stored in various arrays for easier access. When edits are made, the data in the arrays is rewritten to stay updated. |

# Task 5: IPO and Data Validation

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Process** | **Output** | **How** |
| ***Edit Players*** | | | |
| Input new data in the edit fields. | Extracts new data from the edit fields. | Writes new data to database and arrays. |  |
| Ensures empty edits not applied. | Blank edit not applied. | if edt.Text = ‘’ then  exit; |
| ***Input Winners*** | | | |
| Select winner from each radio group. | Extract chosen winner from each radio group. | Writes new data to database.  Updates radio group options in semis. |  |
| Checks all winners selected. | Warning to select a winner from each radio group. | else  inc(W);  if W>0 then  ShowMessage(‘…’); |
| Select winner from each radio group. | Extract chosen winner from each radio group. | Writes new data to database.  Updates radio group options in finals. |  |
| Checks all winners selected. | Warning to select a winner from each radio group. |  |
| Select final winner from radio group. | Extract chosen winner from each radio group. | Writes new data to database. |  |
| Checks winner selected. | Warning to select a winner from each radio group. |  |
| Searches arrays for matching playerid. | Displays winners name on a panel. | arrfirstname[winnerid] |
| ***View Tournament Structure*** | | | |
|  | | Displays tournament structure. |  |