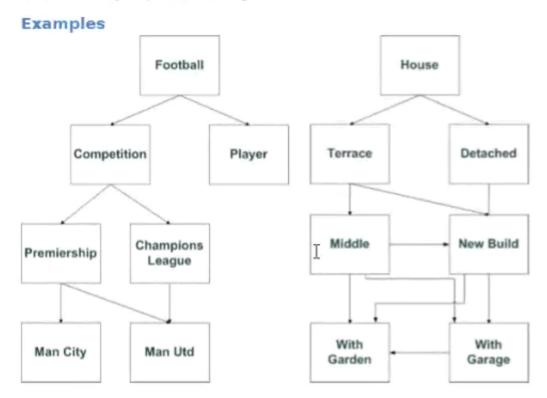
'A directed acyclic graph (DAG) is a directed graph with no directed cycles. That is, it is formed by a collection of vertices and directed edges, each edge connecting one vertex to another, such that there is no way to start at some vertex v and follow a sequence of edges that eventually loops back to v again'



## Exercise

Implement a data structure which the above DAG's could be modelled in. The following functionality is required;

- Following TDD, ensure unit tests exist for all functionality.
- Test harness to model one of the above DAG's.
- 3. The ability to add a child node
- 4. The ability to add a parent node
- 5. For any given node, return the node's children
- 6. For any given node, return the list of all descendant nodes
- 7. For any given node, return the list of all parent nodes

Additional tasks may be given to you by the developers who you will be working with during the exercise.