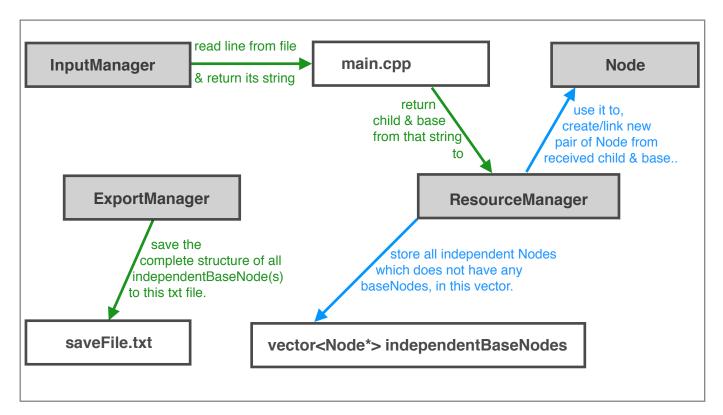
# Assignment 1: Resource Manager for a Real Time Strategy (RTS) game (link)

Use make command to compile the code. This program is developed for terminal's g++ compiler.

#### Structure of Node:

Node	
string name	: stores name
vector <node *=""> baseNode</node>	: points to all baseNode(s)
vector <node *=""> childNode</node>	: points to all childNode(s)
vector <string> reliesOnNodes</string>	: store name of all baseNodes on which it relies to be "usable"
bool usable	: TRUE, if all reliesOnNodes are there in baseNode in "usable" state

# How the whole system is organised:



#### Syntax to add node/link:

- nameOfNode add this node to independentBaseNodes vector.
- childNode baseNode add link between these two nodes; if the node does not exist, it will
  create new node by the given name.

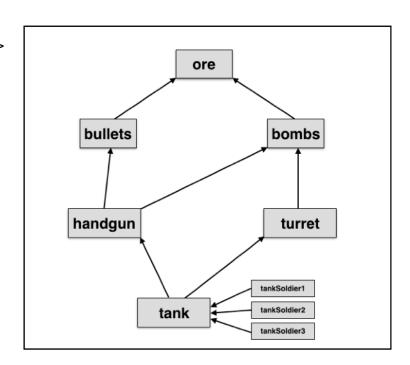
(Note: Memory management is also implemented when a delete action takes place..)

## When aNode gets deleted:

- Reference of aNode will be removed from all of its immediate childNode(s).
- All childNode(s) of the deleted node will be recursively marked as "not-usable".
- If a childNode does not have any other baseNode; that childNode will be added to independentBaseNodes vector.
- To make a childNode usable again, deleted node should be added and linked again as it was previously linked to the childNode.

## How graph is plotted on the console:

 To create structure of dependencies like this one ->



- resource.txt can be like,

tankSoldier1 tank tankSoldier2 tank tankSoldier3 tank turret tank turret tank handgun turret bombs handgun bullets handgun bombs bombs ore bullets ore

- And output will be:

~link~:
denotes a link to
the same Node
which is already
plotted once in
the output of
current structure.