



#### Design Rationale (REQ1):

Tree is an abstract class which contains methods that Sprout, Sapling, and Mature classes inherit. In other words, Sprout, Sapling and Mature extends the Tree abstract class. This Tree class is extended from Ground. Sprout uses Sapling, and Sapling uses Mature. All these classes will be in the Tree package.

Koopa and Goomba will be spawned from the Mature and Sprout class respectively.