Abstract Factory – Implemented by **Vincent Capra** includes the following participants:

• Abstract Factory Class – AbsLifeFormFactory

• Concrete Factory Class – LifeFormFactory

• Abstract Product class – Lifeform

• Concrete Product Classes – Human, Xenomorph, Martian, Vulcan, Saiyan

Template – Implemented by **Vincent Capra** includes the following participants:

• Abstract Class – LifeForm

• Concrete Class – Human, Xenomorph, Martian, Vulcan, Saiyan

Strategy – Implemented by **Joseph Lumpkin** includes the following participants:

• Interface – ProgressibleLifeForm

• Implementation: A hook to call all LifeForm activities as time progresses.  
  
Singleton – Implemented by **Zack Powers**, includes the following participants:

• Singleton Class – EventLogger

Memento– Implemented by **Zack Powers**, includes the following participants:

• Originator Class – Grid

• Caretaker Class – GridCaretaker

• Memento Class – GridMemento

Iterator – Implemented by **Rocky Trinh**, includes the following participants:

* Iterator – Grid:progressLifeForms(). Iterates over the array of LifeForms and progresses them through one interval of time.