Demonstration of types of cell division

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01

Problem statement

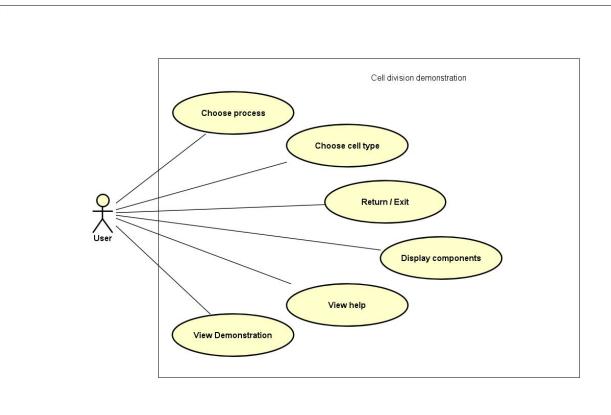
- Cell division:
- Amitosis in prokaryotic cells
- Meiosis and mitosis in eukaryotic cells
- Main screen: Help button, choose type of cells, quit button
- Display:
 - Cell components
 - Cell division processes





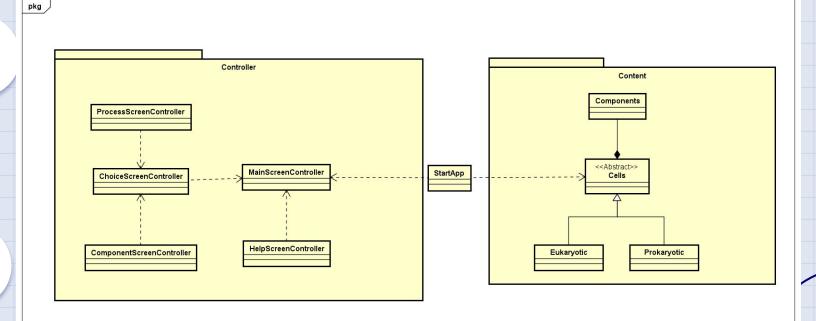


02 Use case diagram



General class diagram



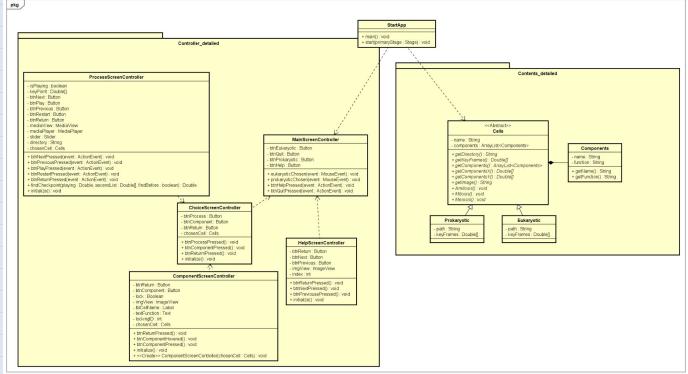






Detailed class diagram











Encapsulation

- Private class attributes prevent access from outside
- Methods defined in class to handle those attributes



- Real life cells are abstracted into java classes and objects
- Hiding process details from user











Inheritance

- Classes of similar traits can generalize into parent class and vice versa
- Cells are superclass of Prokaryotic and Eukaryotic



- Eukaryotic and Prokaryotic implements Process interface
- A function of the same name behaves differently depending on the calling object





