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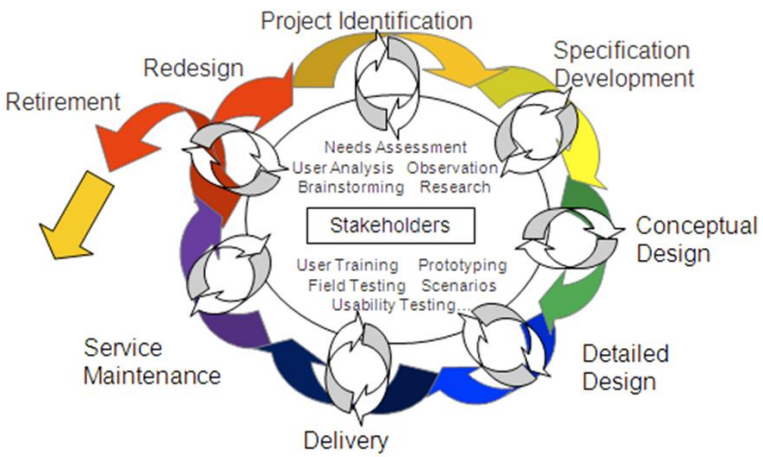
Scenario Cards



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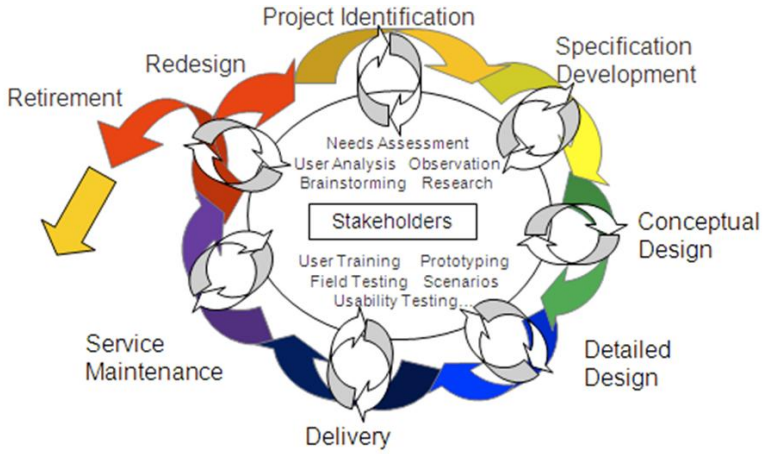

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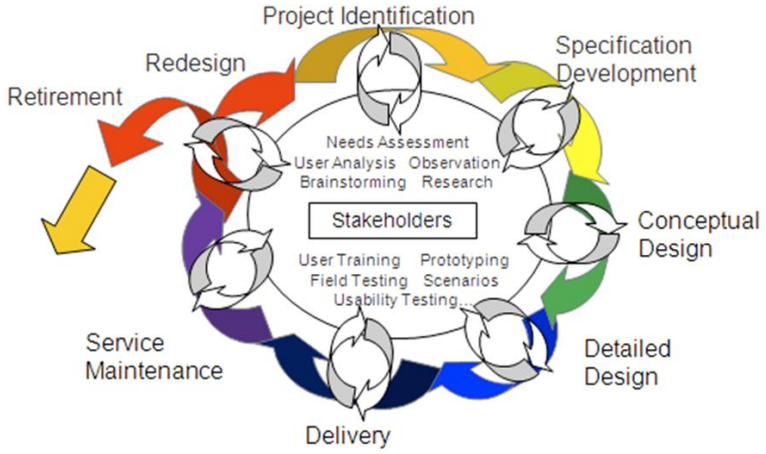

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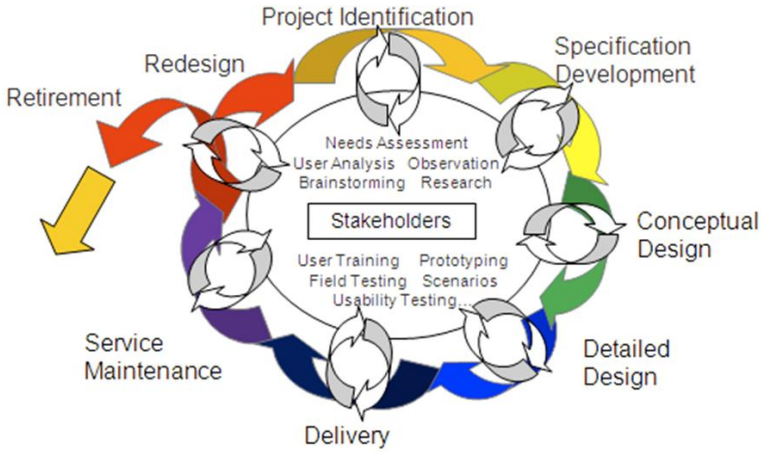

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Scenario

Name: *Technology High School*

Age: *14-18 yrs.*

Gender: *Mixed*

Role: *Students with accessibility issues*

Background: *One of the classes within Technology High School Is a class for students who have differing levels of accessibility challenges. These students are finding that the cafeteria trays just do not meet their needs and they have a difficult time getting their lunches without spilling the contents of the trays. This causes embarrassment and feelings of helplessness.*

Challenge: *Create an ergonomically feasible tray that will allow these students the ability to get their food in the cafeteria without spilling their lunch.*

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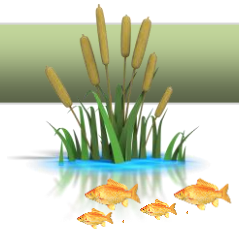
Scenario



Name: *Lakeview Elementary School*

Age: *various*

Gender: *Mixed*

Background: *Lakeview elementary school has a large area in their commons area that is not being used. They would like to have an aquaponics system where they can have tilapia and water hyacinths so that the students would be able to explore this system of growing food. Additionally they would like to have the special needs students feed the fish, chart air and water temperatures to keep track of the habitat.*

Challenge: *Design an aquaponics system for the school that will be able to grow tilapia and water hyacinths*

EPICS® HIGH

Scenario

Name: *East River Water Quality Sampling Station*

Age: *all*

Gender: *Mixed*

Role: *Environmental Monitoring*

Background: *The East river is located approximately a half mile from the High School in a major metropolitan city. The river is a major source of water for the community and there are multiple industries up river from the town.*

Challenge: *Design a water quality sampling station for the river to monitor particulate and chemical pollution that would impact the quality of the river ecosystem.*

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Scenario

Name: *Pacific High School Athletic Department*

Background: *The EPICS teams have been approached by the Athletic department to help develop a system of storing the athletic equipment for the Physical Education classes. The storage room is stacked with all of the equipment without any inventorying or check out system along with a system of storage that allows for easy access and viewing.*

Challenge: *Create a storage system that would allow for easy access and check out of the equipment.*