By Emily, Loes, Luuk and Percy

HOW CAN WE DESIGN A LOW TECH SOLUTION TO BATTLE FOOD INSECURITY IN THE LOWER CLASS POPULATION OF MUMBAI?

Context

- Poor neighbourhoods of Mumbai
- Crowded households
- Lack of space
- Daily wage jobs
- Lack of basic necessities
- Primitive houses (often made of waste materials)
- abundance of waste material

Stakeholders

- People from poor neighbourhoods and slums in Mumbai
- NGO's, educational associations and schools and trainings centers.

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Digital Milestone

More info

Ethical Considerations

Useful for future pandemics

All people in the cast system can use the technology safely

Low maintenance

Simple design

Use of cheap/waste materials

Use little natural resources

Design shouldn't cross religious boundaries (Hinu, muslim, christian)

Technology should not exclude people with different capability profiles

Consider/battle corruption

Implementation that requires low expertise

Capabilities

Well-nourished

Stronger immune-system

Bodily health

Energy

Longer lifespan

Reduced survival stress
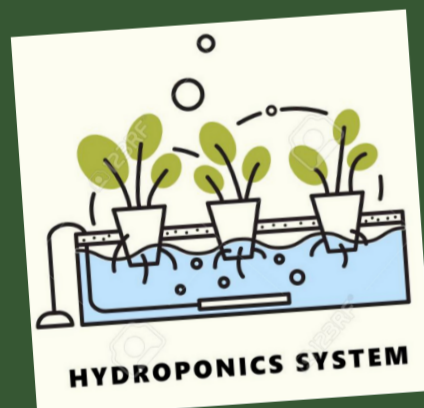
Life

Better quality of life

Communal contribution

Self esteem

Affiliation

Independency

Less conflicts (because basic necessities are better fulfilled)

HYDROPONICS SYSTEM

Hydroponics: reduced water and soil usage

Communal garden

Spirulina pond (algae)

Zeerpot: cheap, no electricity refrigirator

Oyster mushroom cultivation

Fermentation and pasturisation

Existing technologies