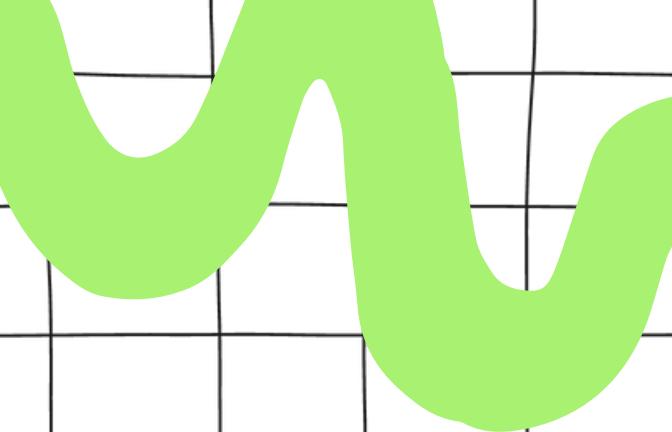
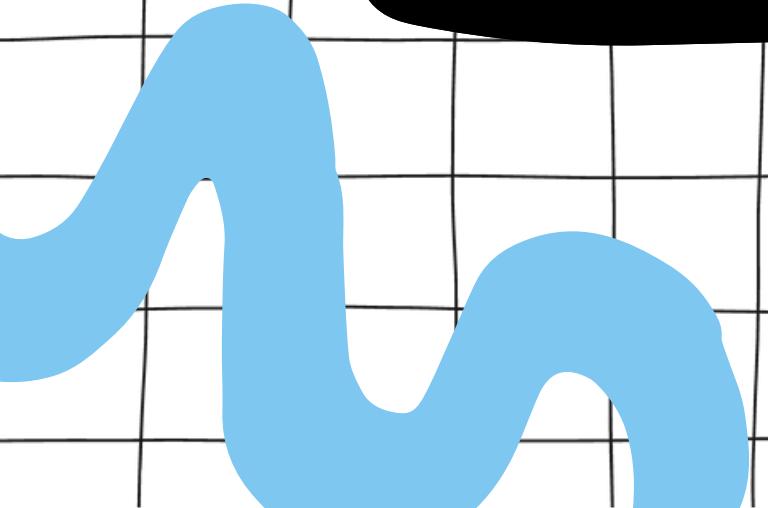
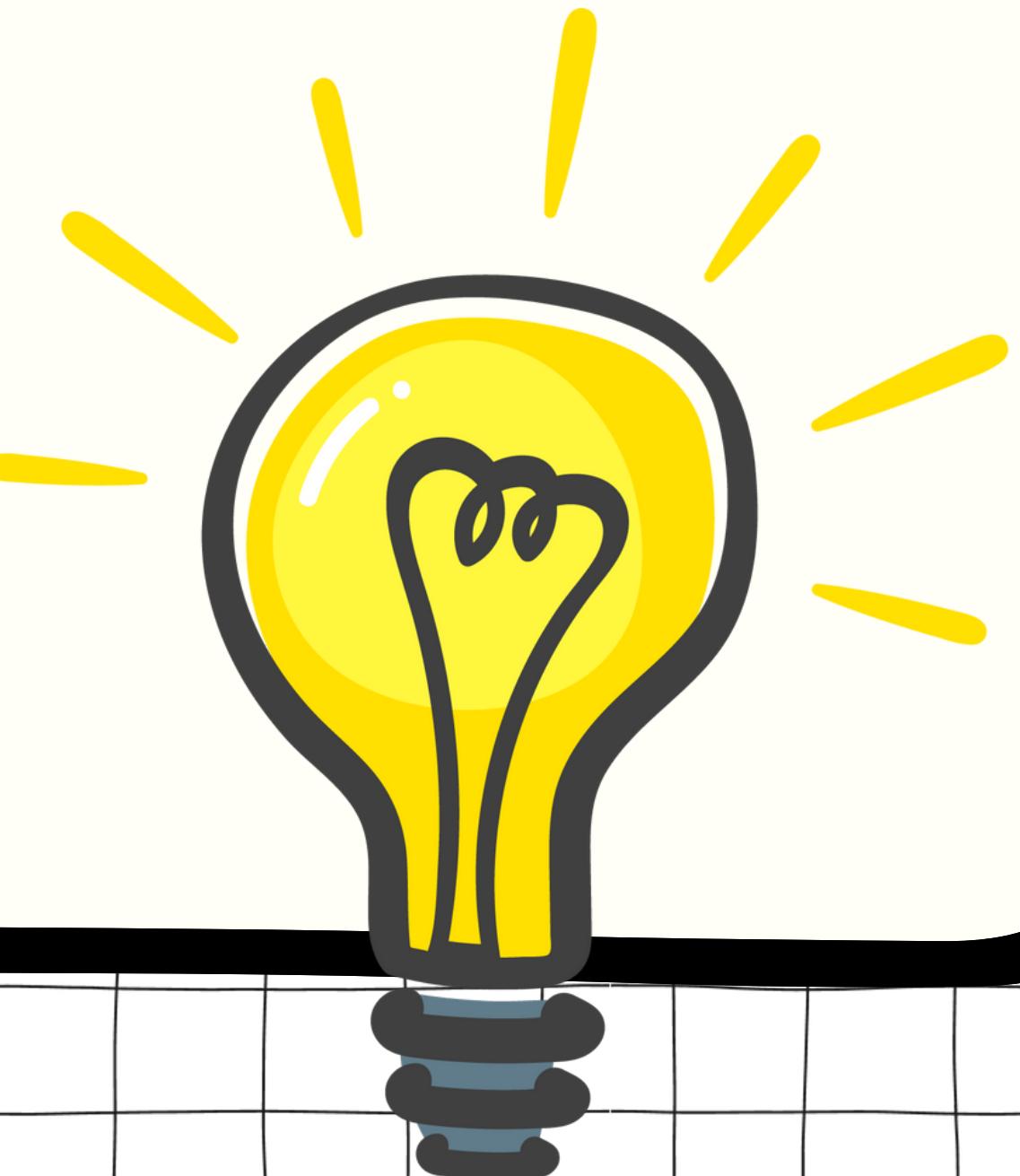




Kube-Nation

**Exploring the Land of
Kubernetes**

Learn Kubernetes by building a nation



About us



Siddhant Khisty
Community Manager

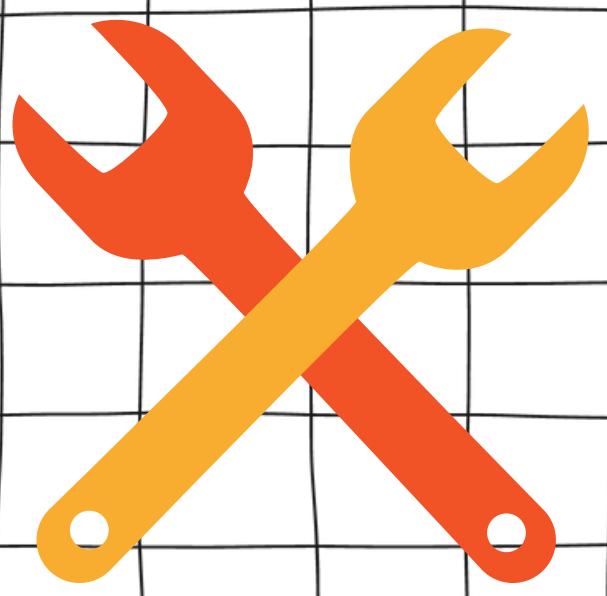


Aakansha Priya
DevRel

Kubernetes

- DeFacto Container Orchestrator
- Widely used in the industry
- Amazing distributed system
- Complicated
- Very easy to get wrong





What we need



01

Land

02

Authority

03

People

04

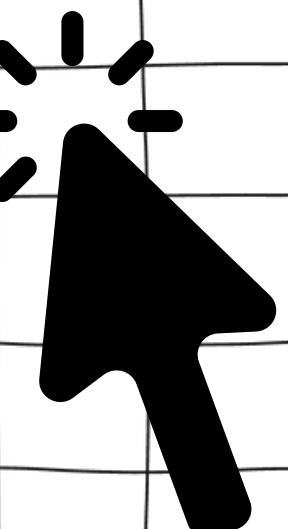
Homes

05

Communication

06

Builders



Land

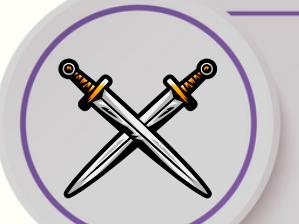




Buy



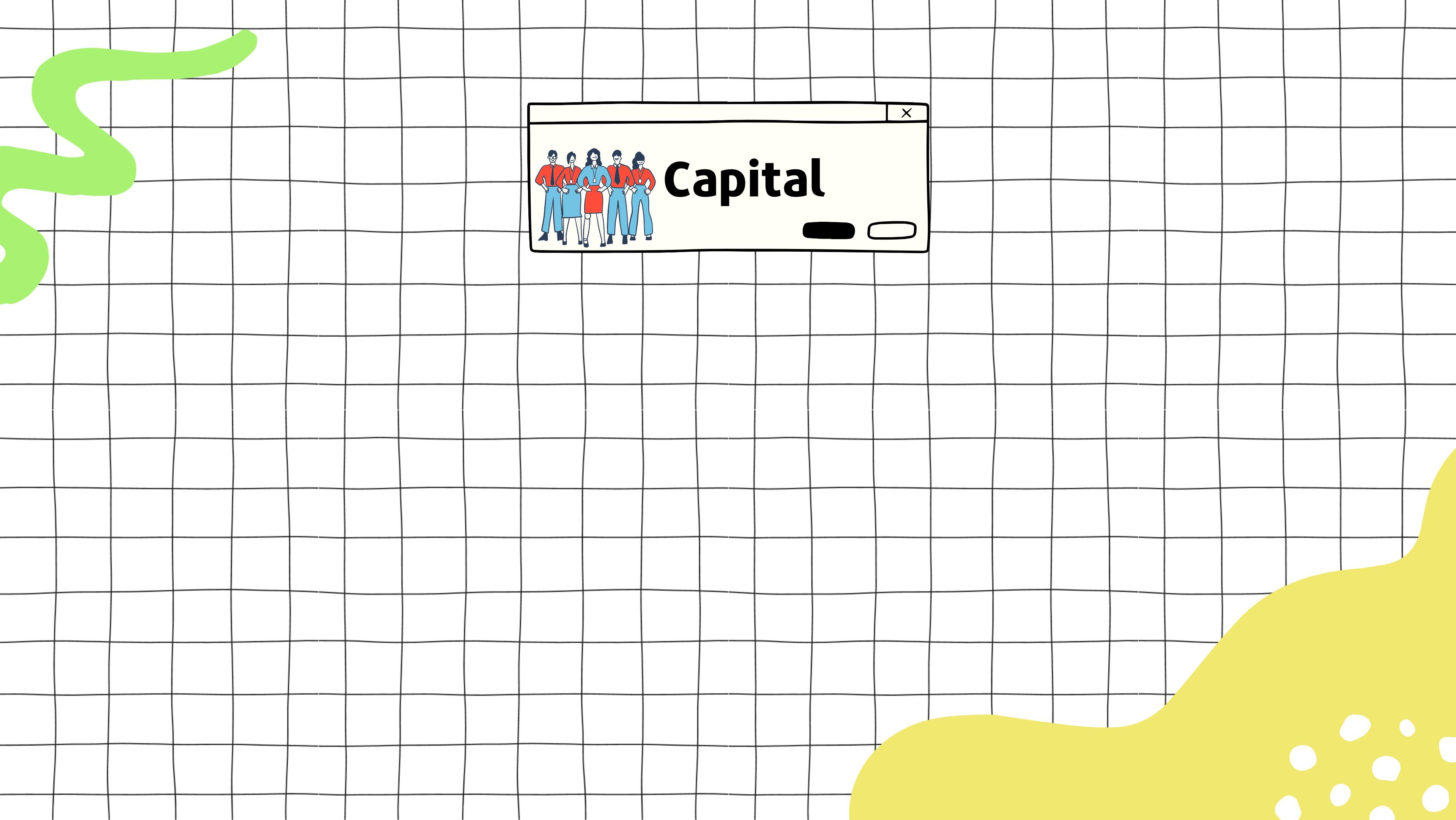
Rent

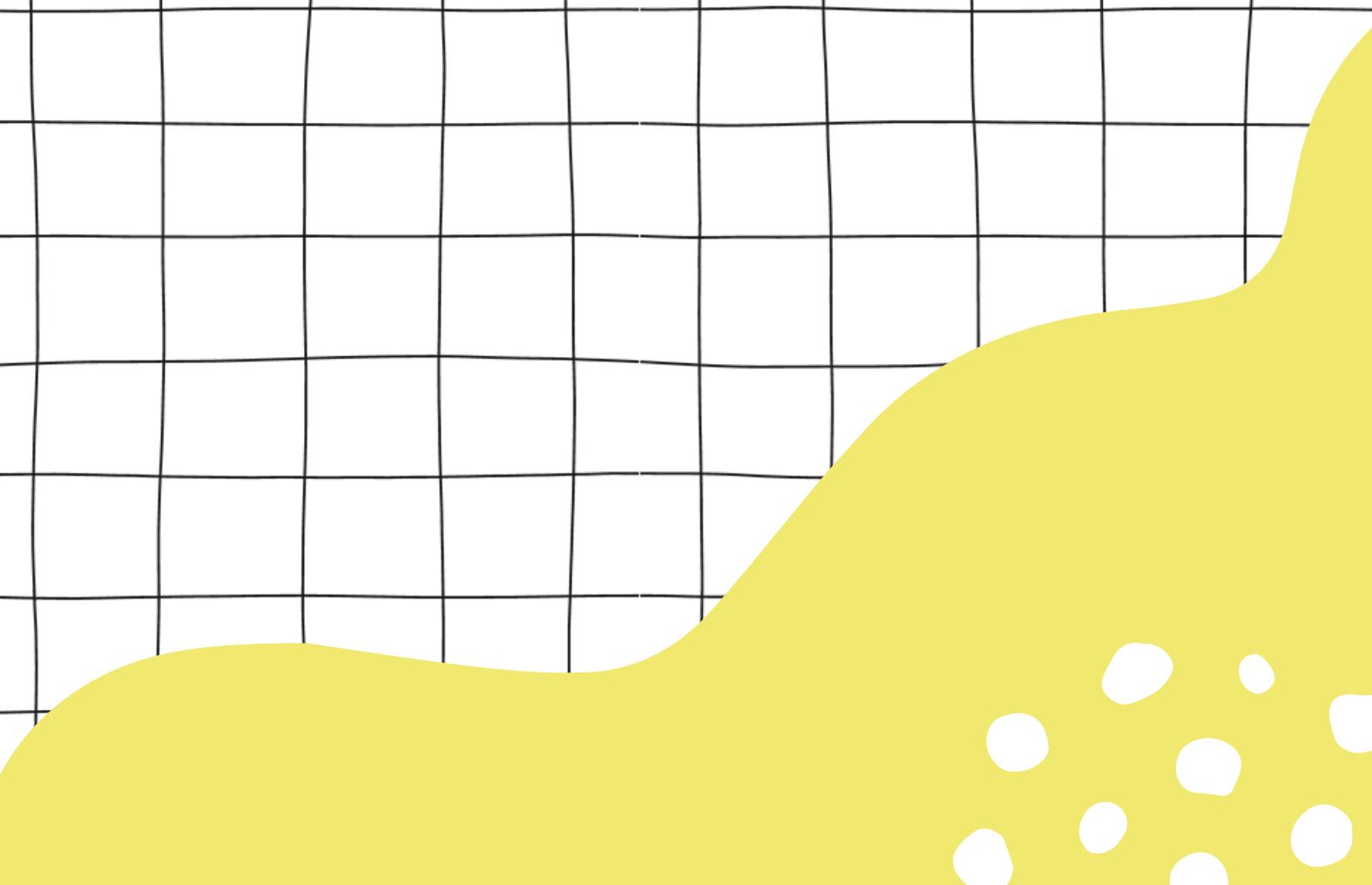
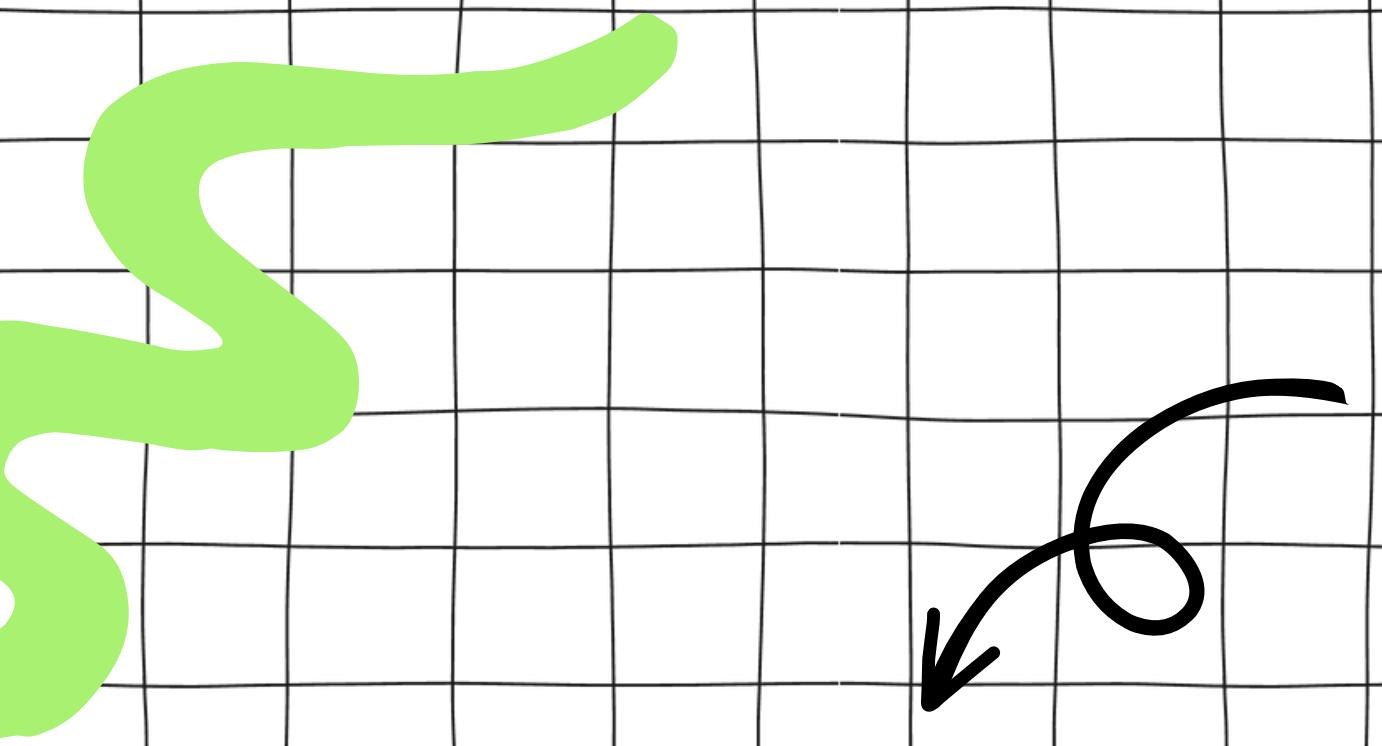
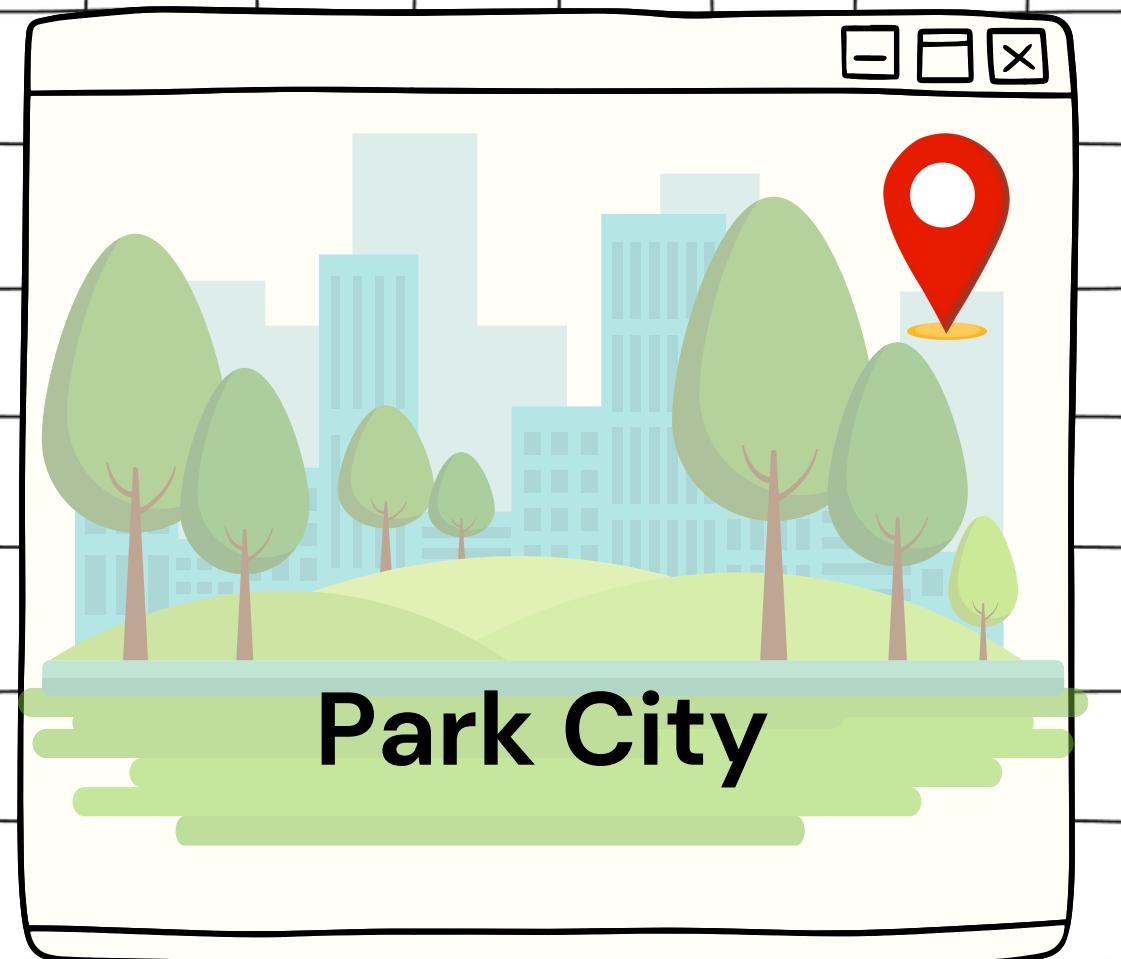
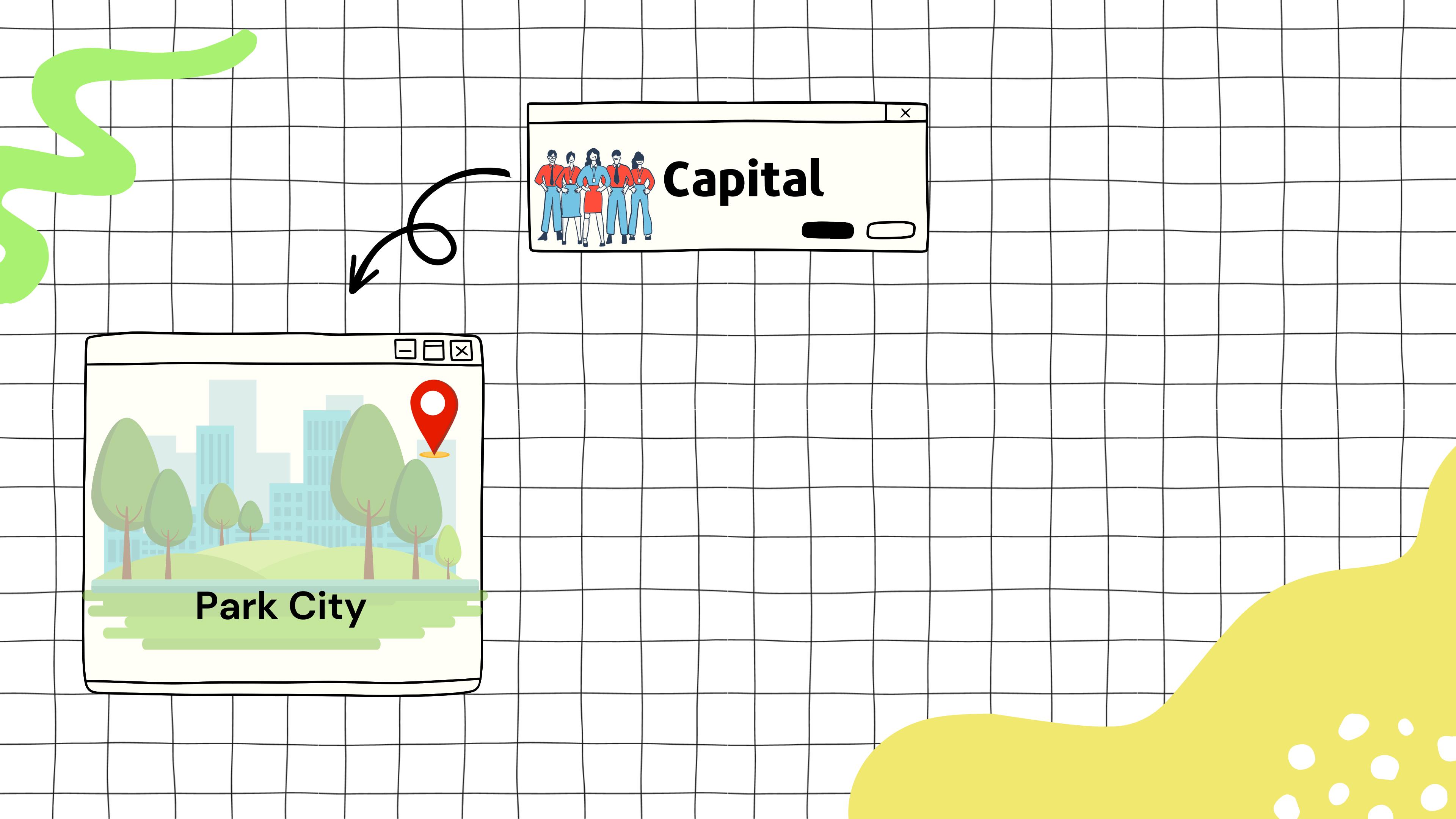


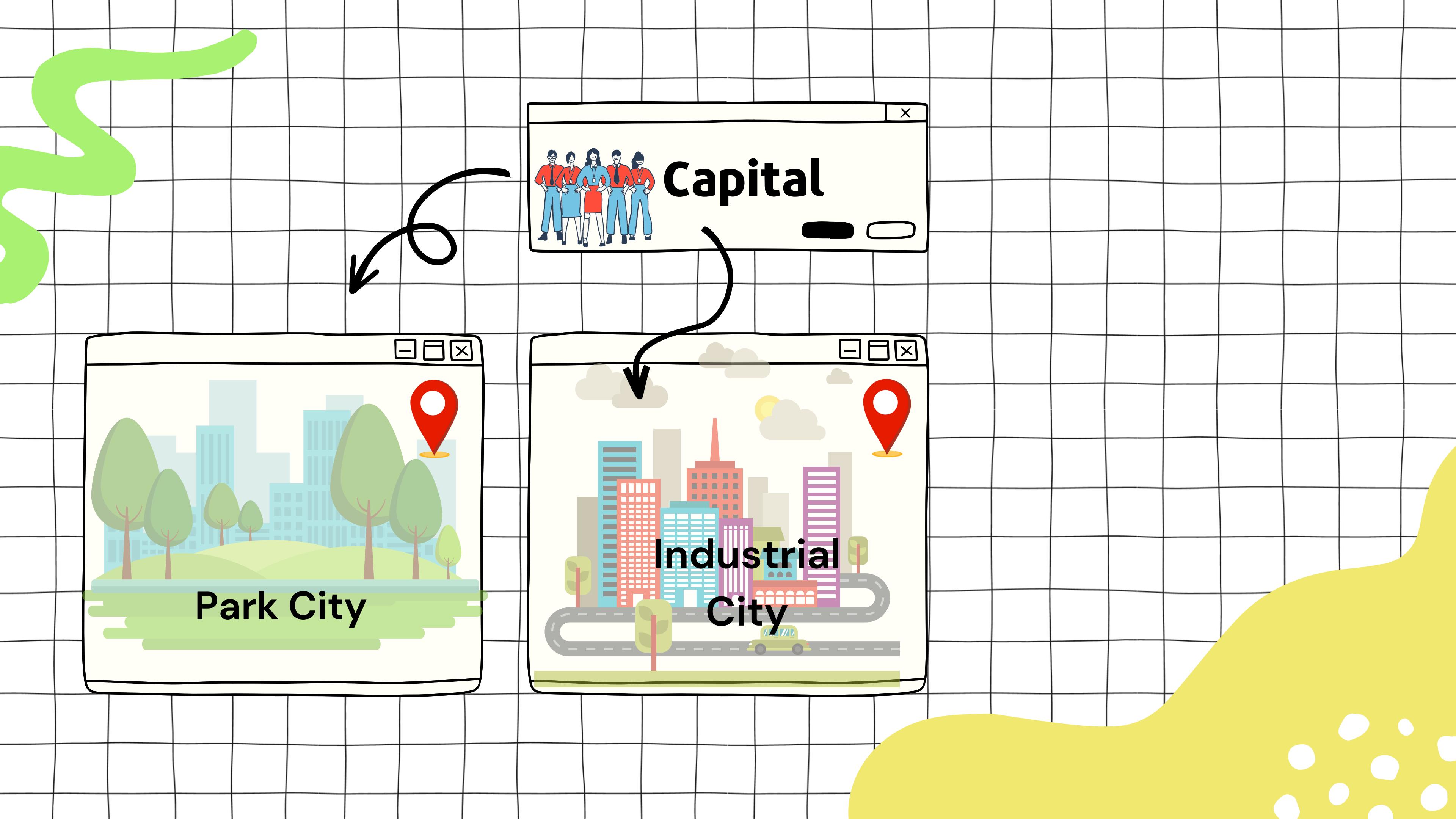
Conquer

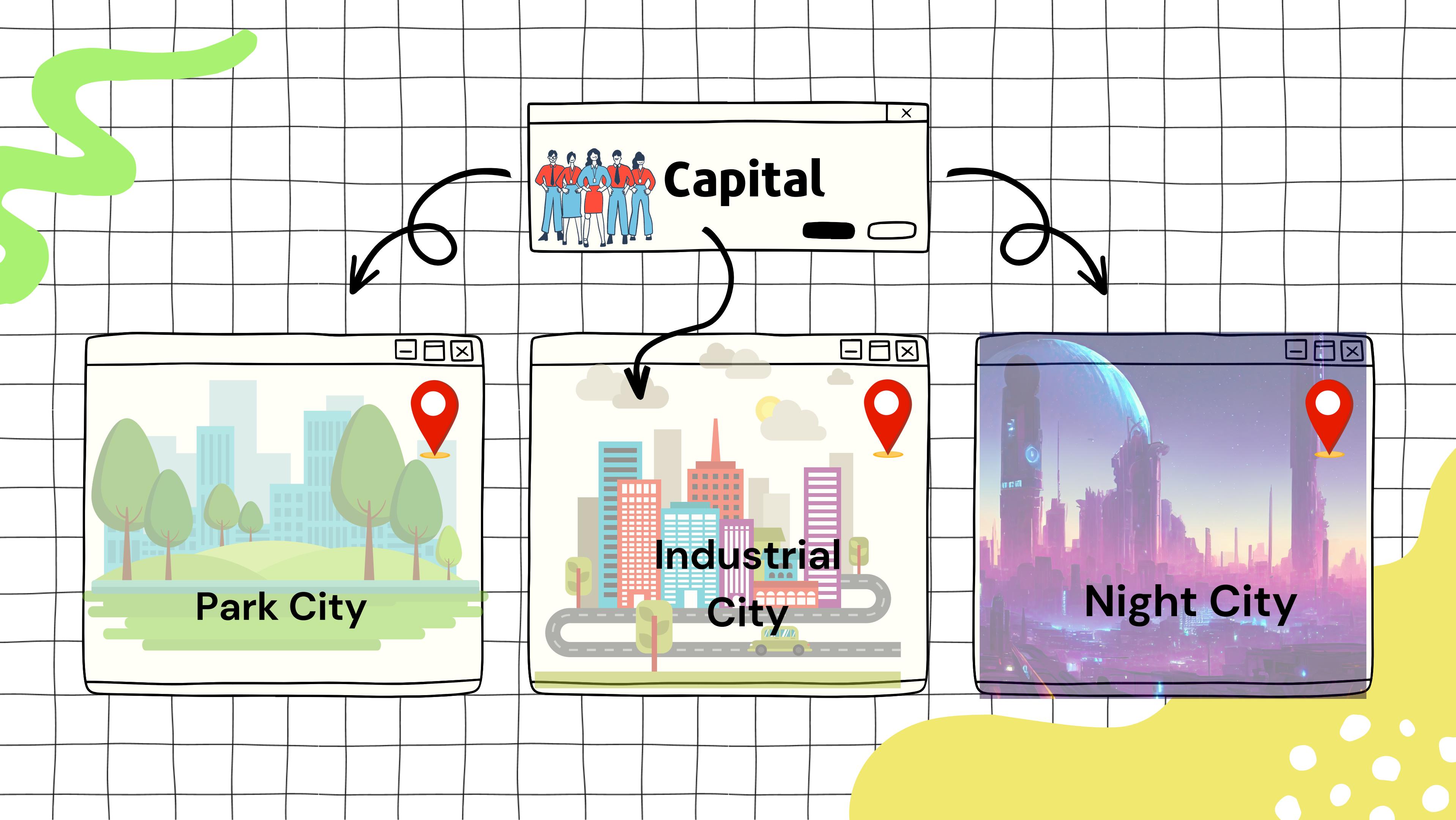


Steal









Important stakeholders

- Who makes the decisions?
- Who carries out orders?
- Who makes sure everything is done?
- Who keeps the history?



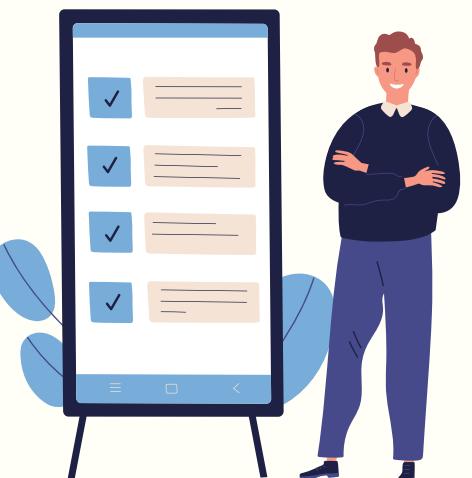
President

- Governs the Nation
- Makes important decisions
- Decide who should know
- Face of the Nation



Manager

- Makes sure everyone works
- Check if cities are working
- Do people have phones?
- Is the Nation healthy?



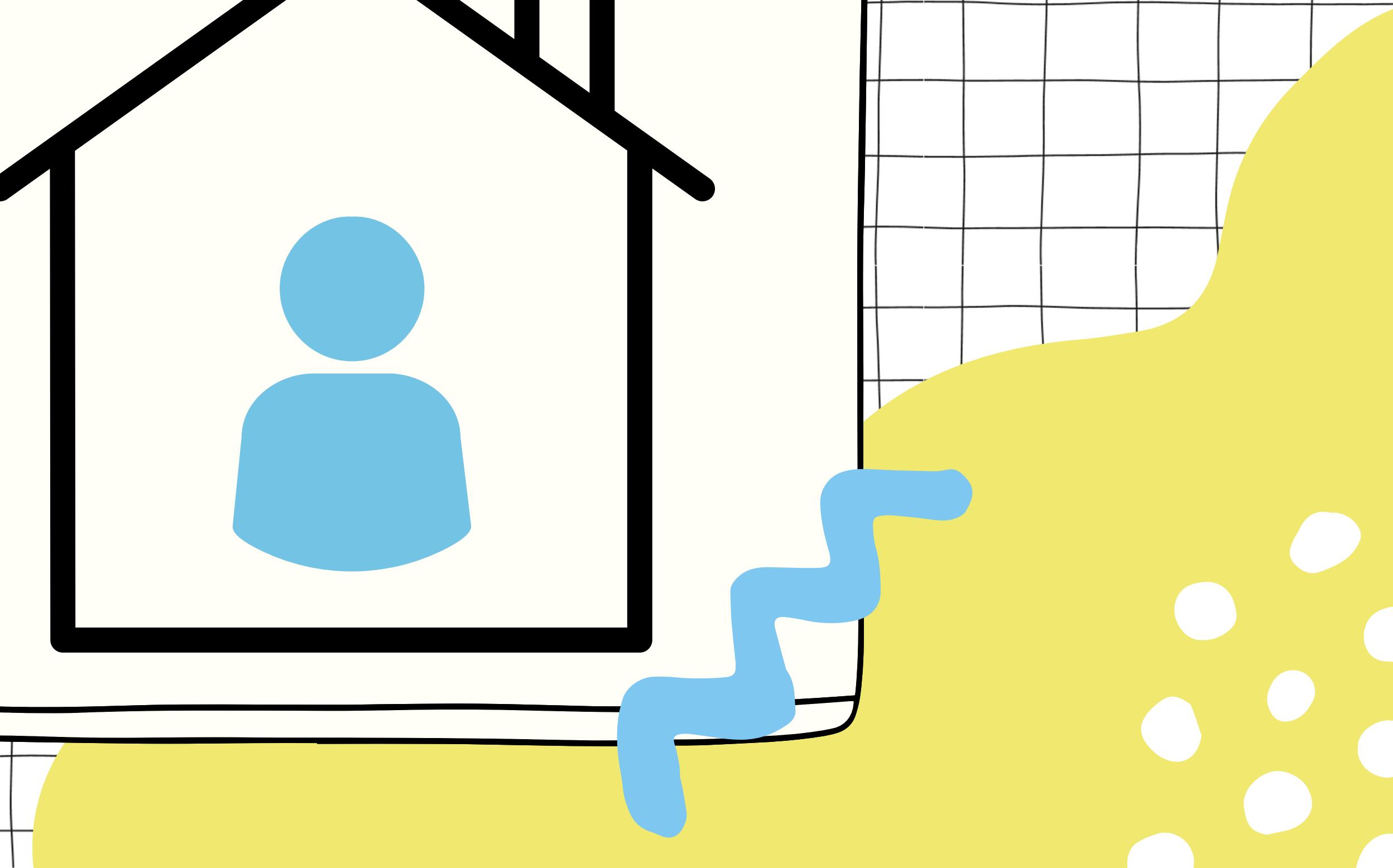
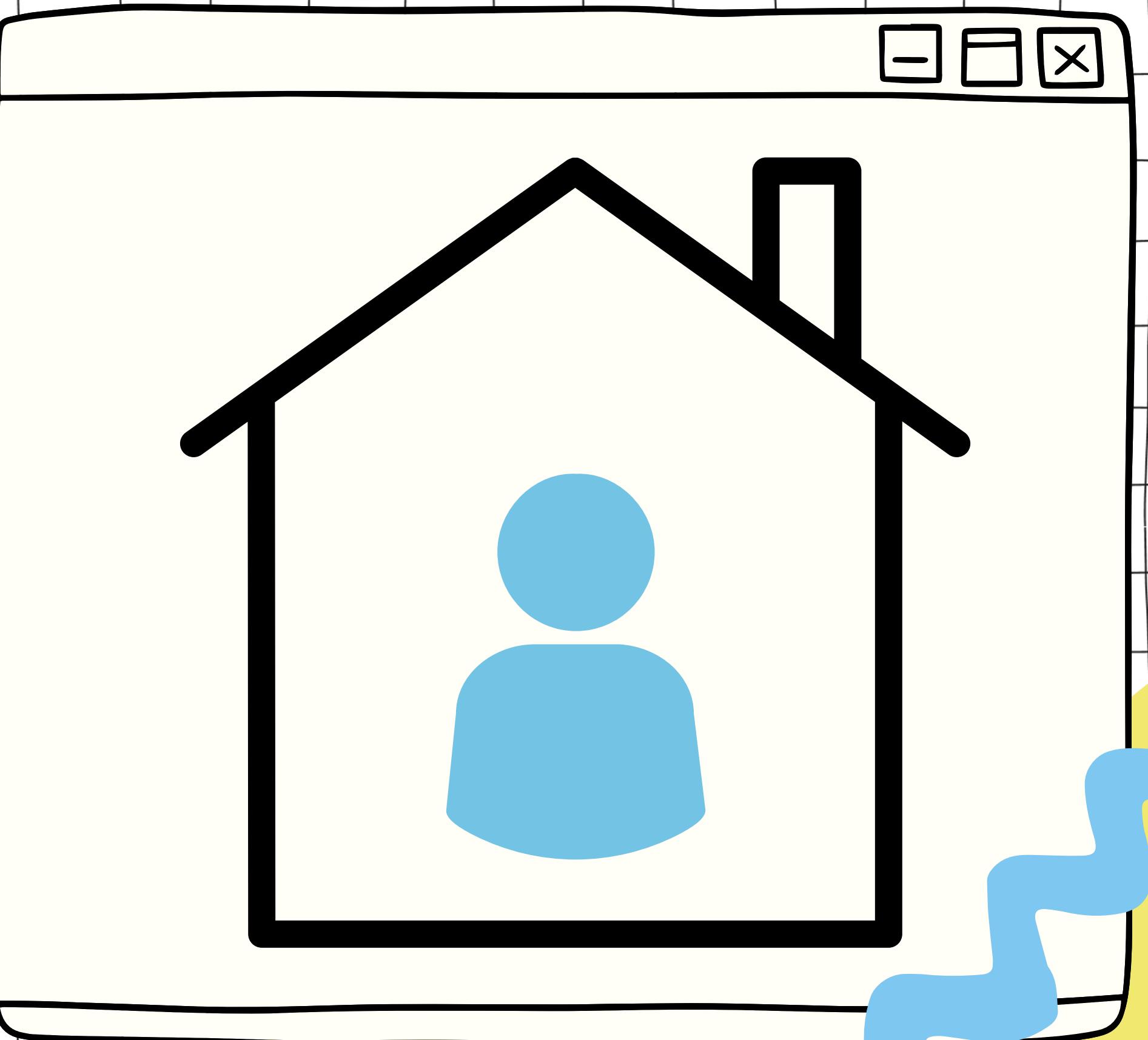
Task Manager

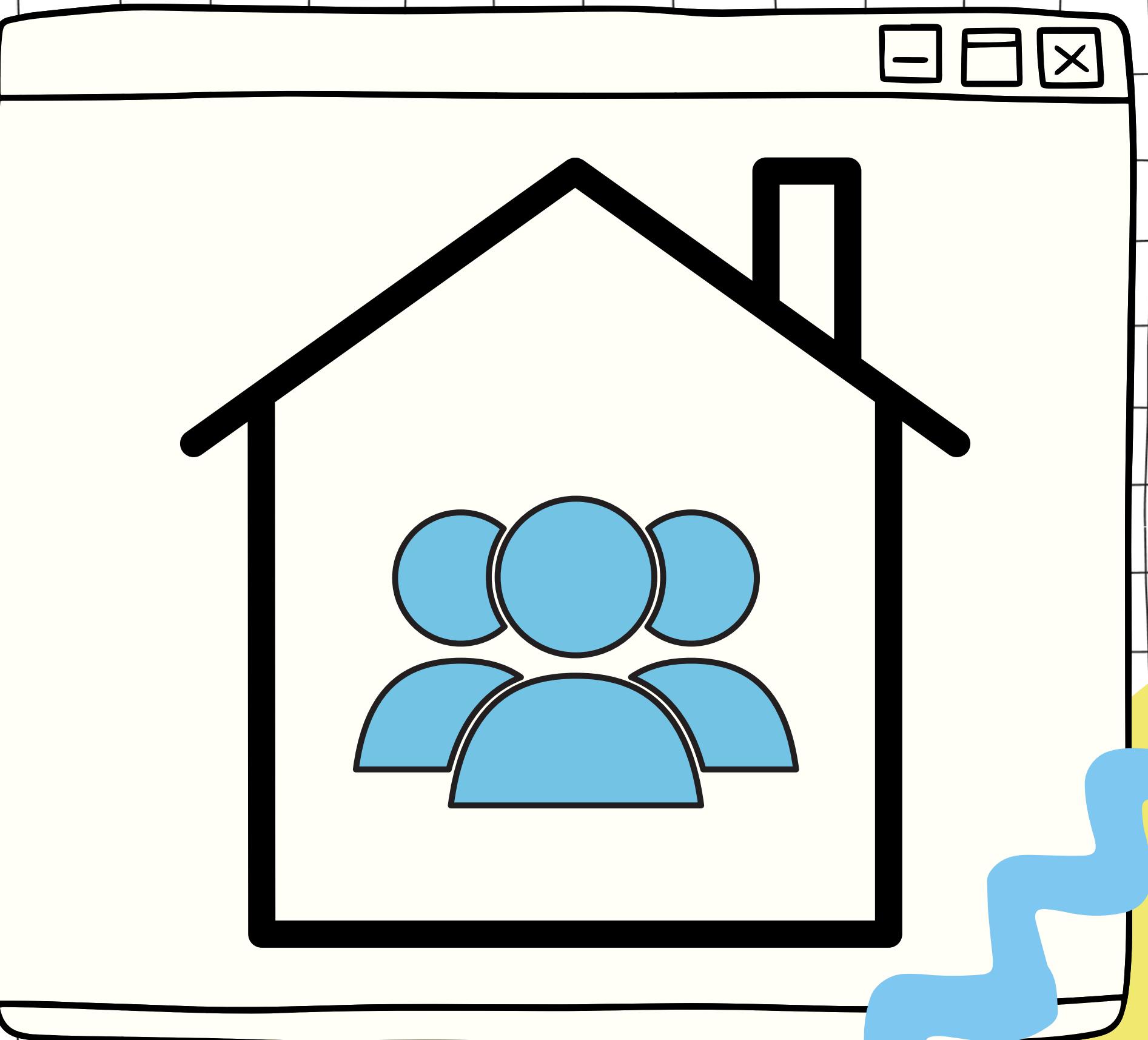
- Decide who does the work
- Assign tasks to people
- Decide where to give task

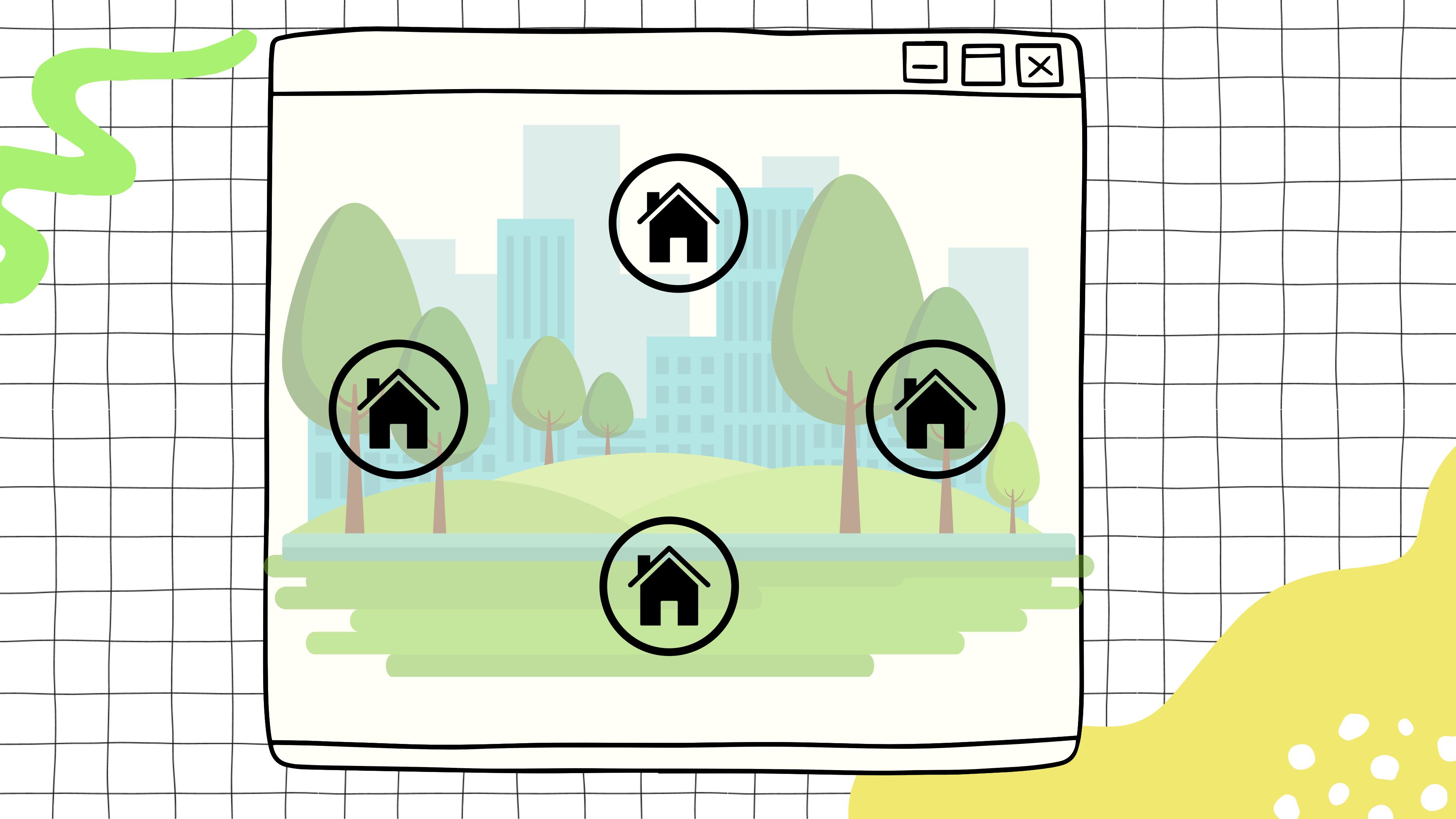
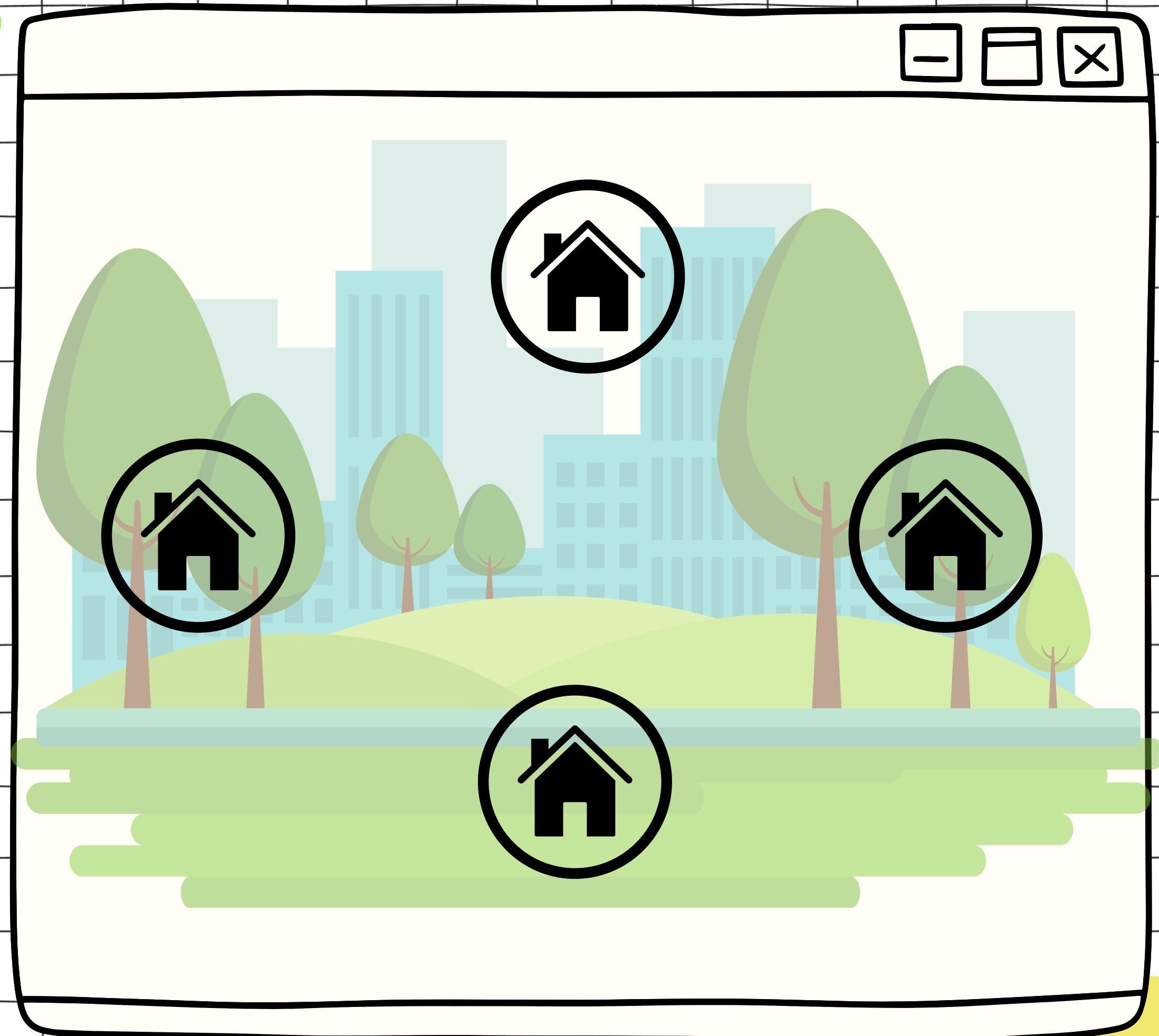


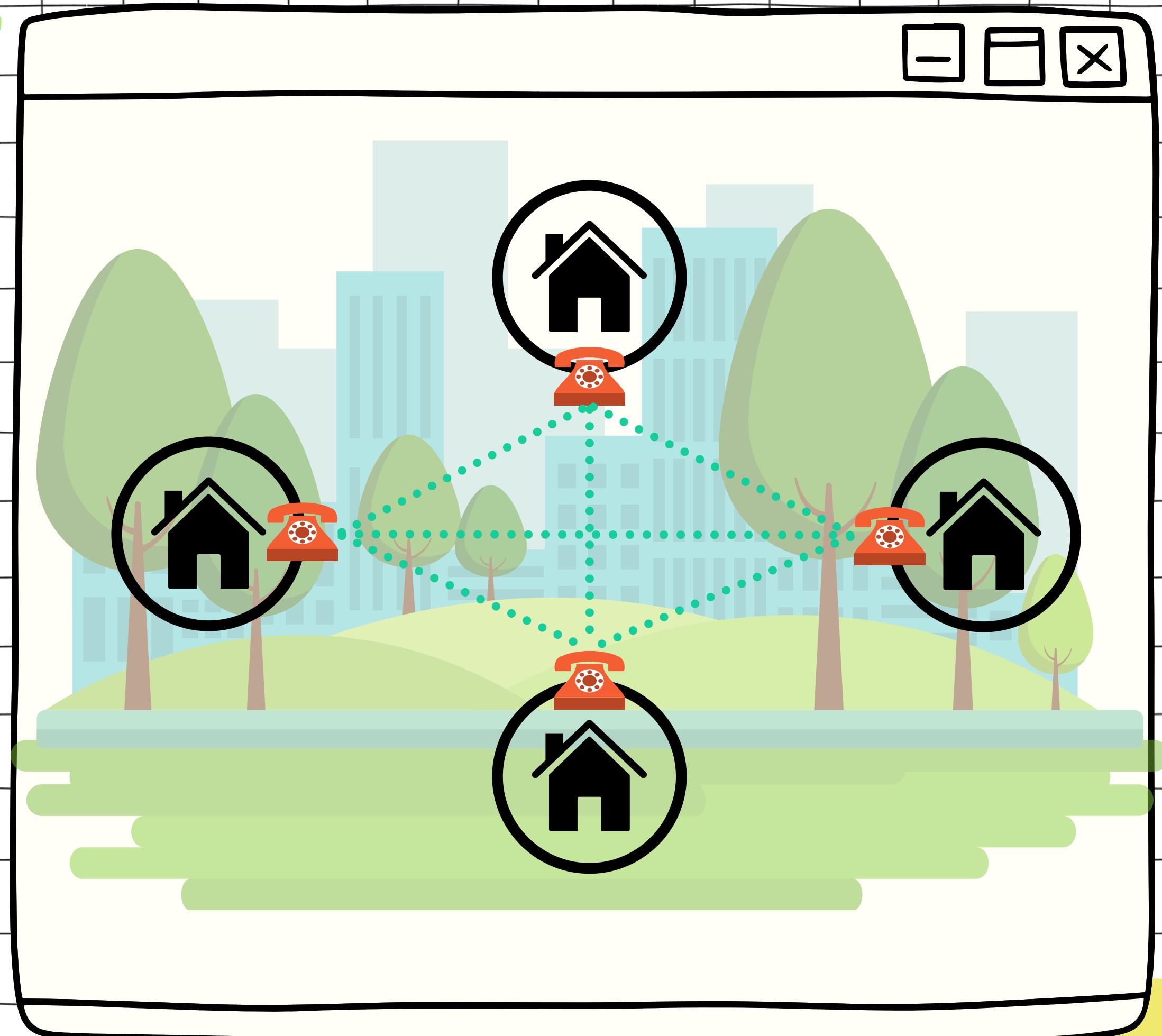
Central Reserve

- What were past commands?
- Who is doing the task?
- What's the task status?
- If tasks failed, why?
- Who lives in the Nation?
- Who do people talk to?





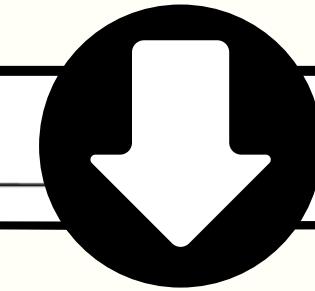
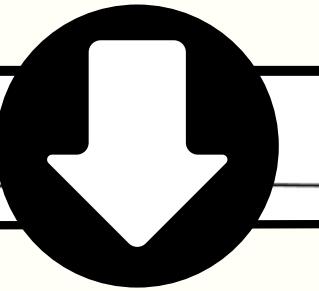




The hard workers

The ones who do the dirty work to build and maintain the Nation

...



Builder

- Builds houses
- Rebuilds destroyed houses based on a contract
- Make sure people stay in houses
- Exist in every city



Communications

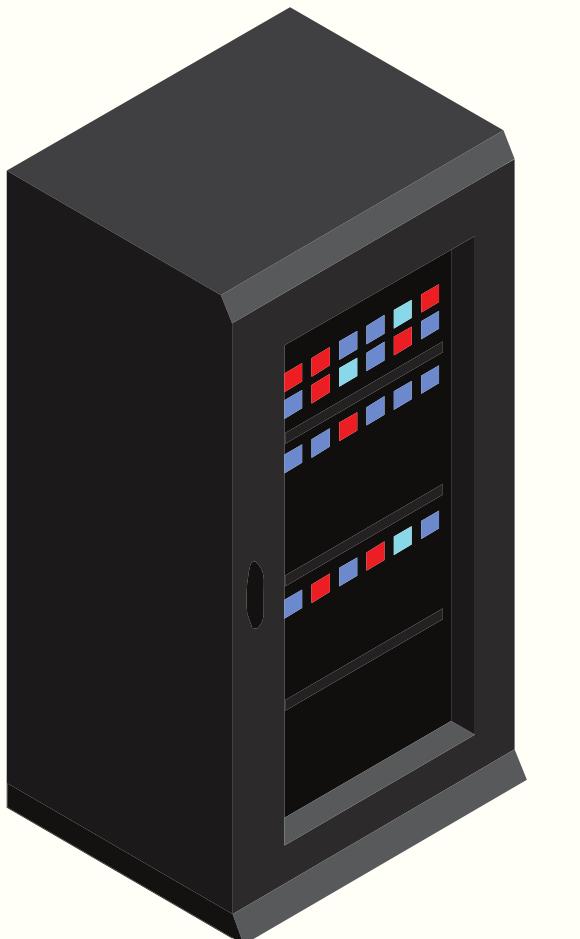
- Make sure everyone can talk
- Delivers messages to people
- Enforce comm rules
- Exist in every city

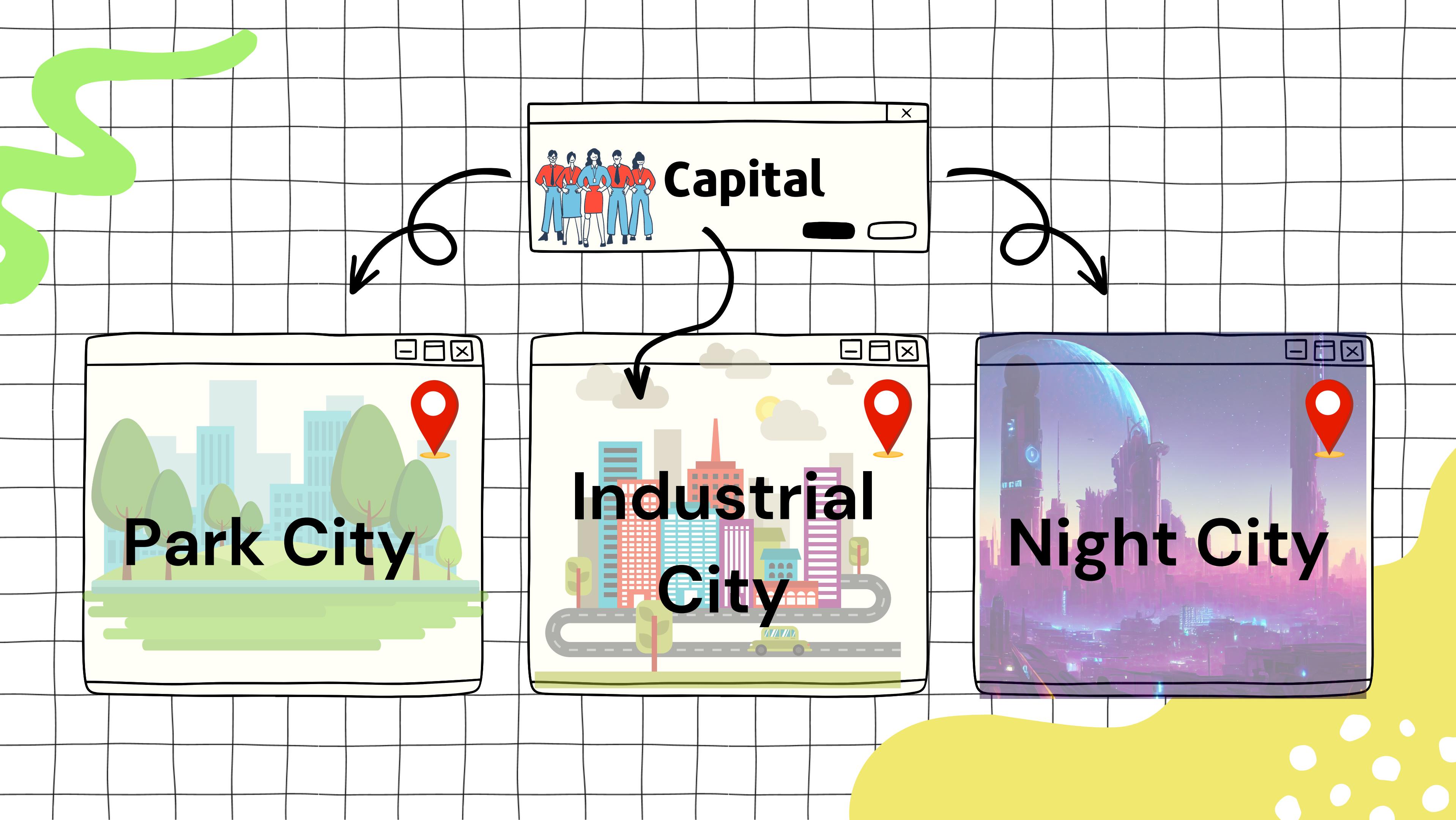
Congratulations

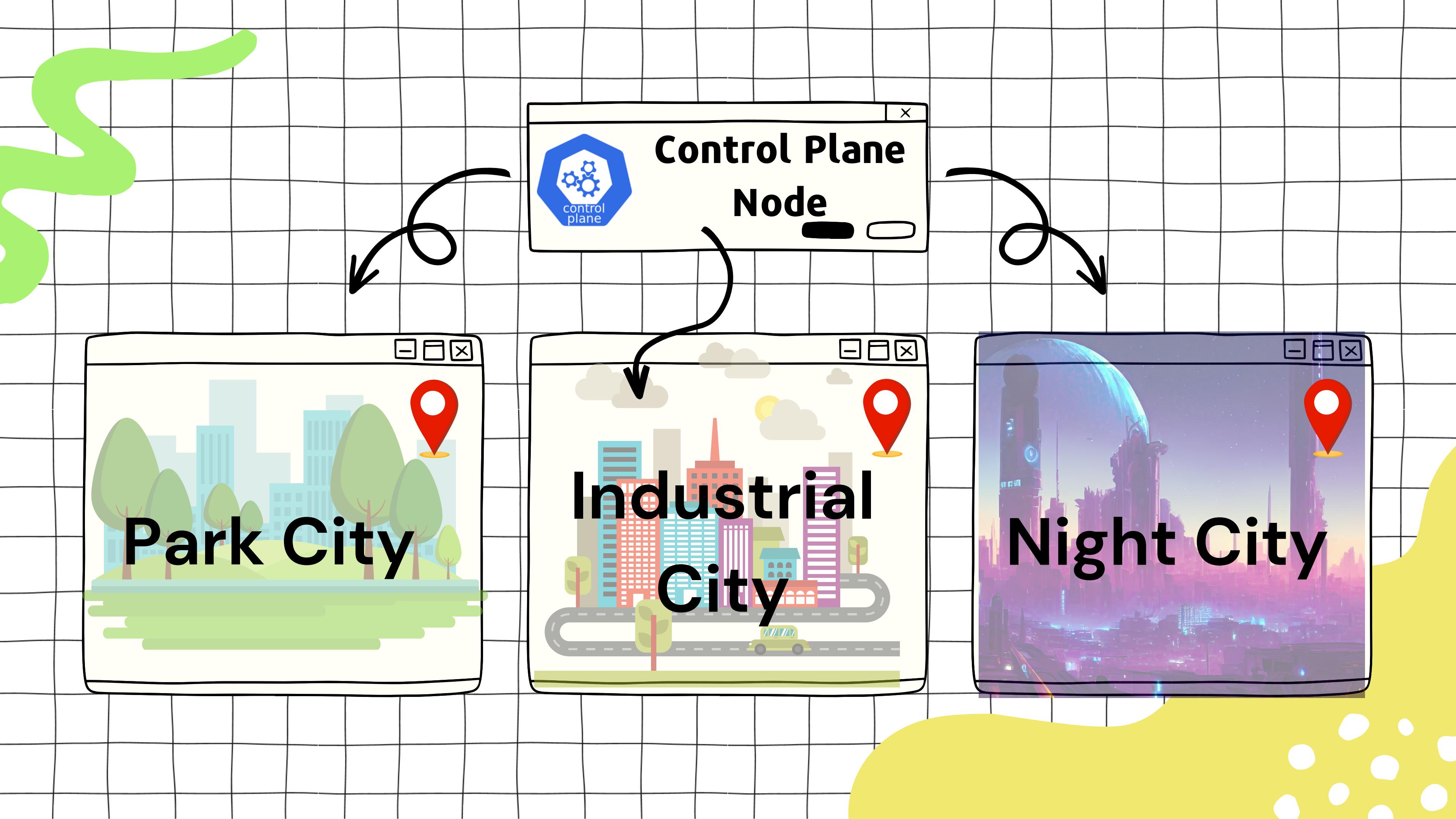
You just learned the entire
Kubernetes architecture

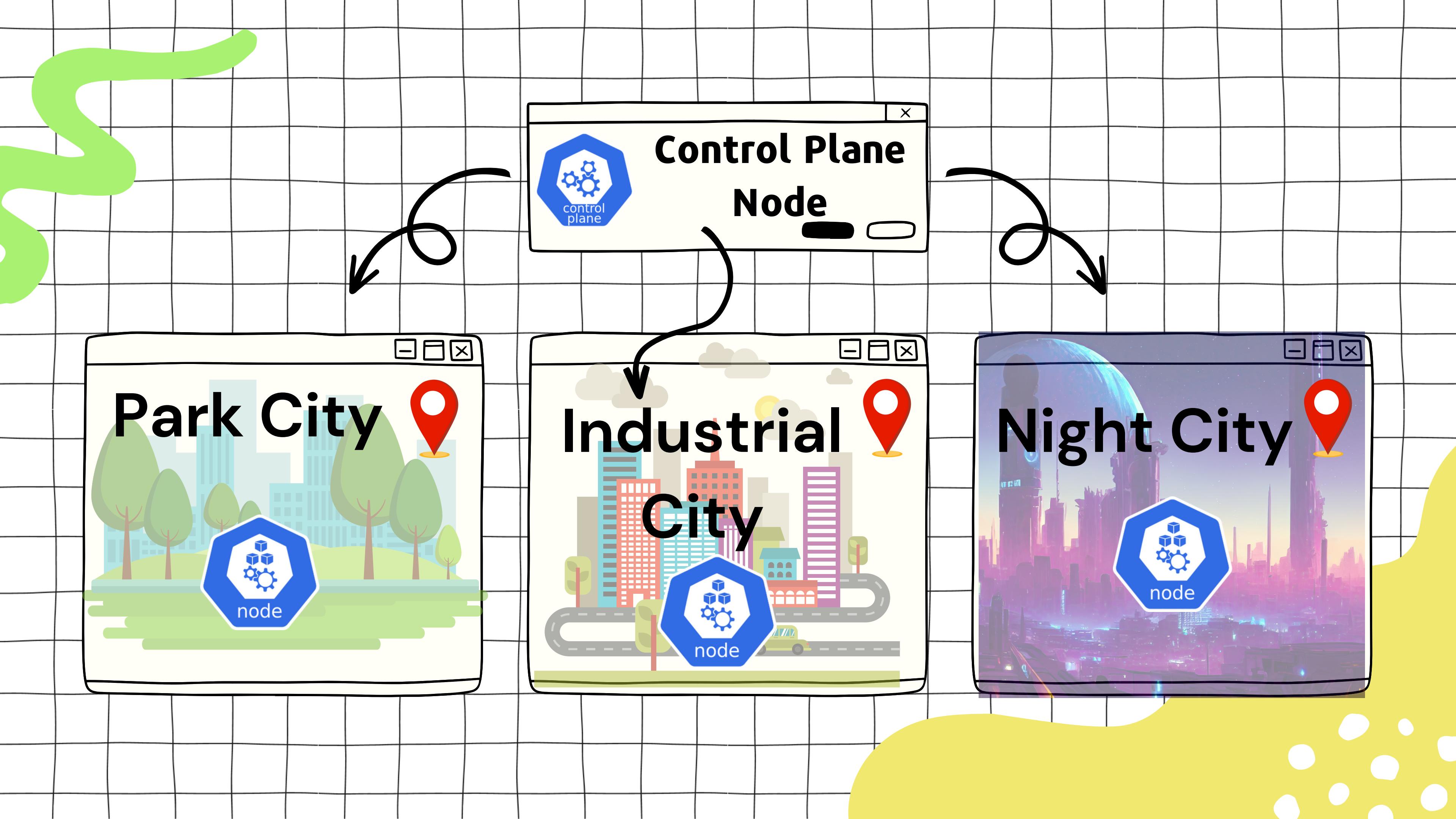


Land









Important stakeholders

- Who makes the decisions?
- Who carries out orders?
- Who makes sure everything is done?
- Who keeps the history?



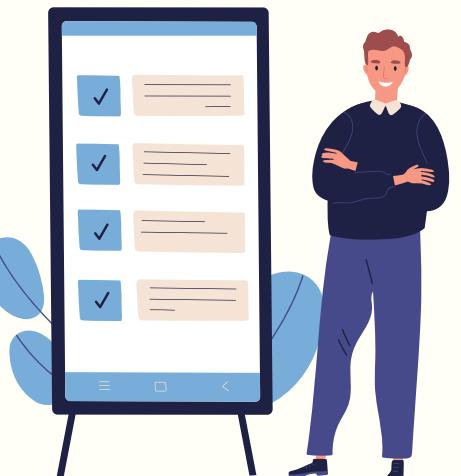
President

- Governs the Nation
- Makes important decisions
- Decide who should know
- Face of the Nation



Manager

- Makes sure everyone works
- Check if cities are working
- Do people have phones?
- Is the Nation healthy?



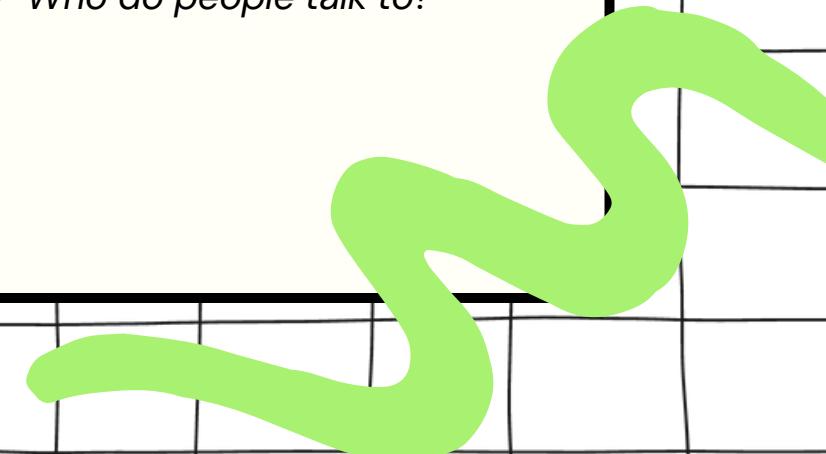
Task Manager

- Decide who does the work
- Assign tasks to people
- Decide where to give task



Central Reserve

- What were past commands?
- Who is doing the task?
- What's the task status?
- If tasks failed, why?
- Who lives in the Nation?
- Who do people talk to?



Important Components

- Who makes the decisions?
- Who carries out orders?
- Who makes sure everything is done?
- Who keeps the history?



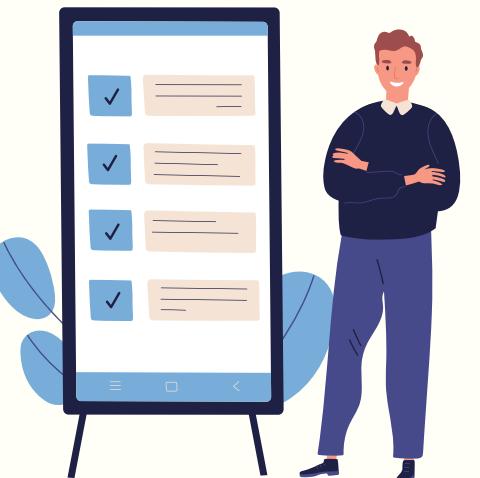
kube-api Server

- Governs the Nation
- Makes important decisions
- Decide who should know
- Face of the Nation



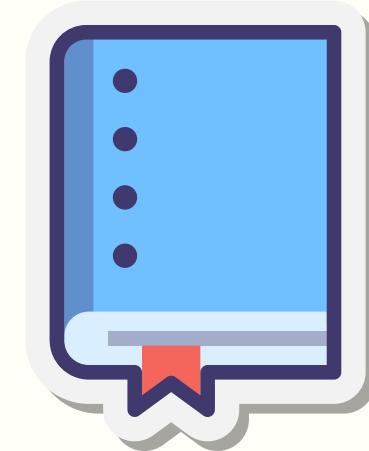
Manager

- Makes sure everyone works
- Check if cities are working
- Do people have phones?
- Is the Nation healthy?



Task Manager

- Decide who does the work
- Assign tasks to people
- Decide where to give task

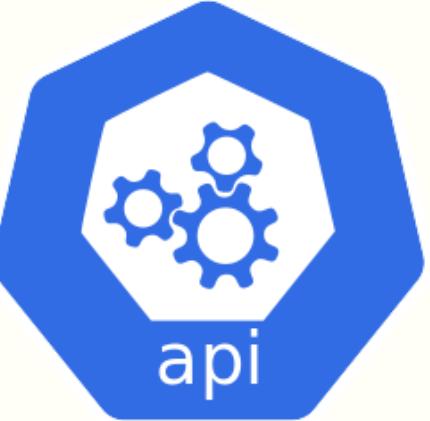


Central Reserve

- What were past commands?
- Who is doing the task?
- What's the task status?
- If tasks failed, why?
- Who lives in the Nation?
- Who do people talk to?

Important Components

- Who makes the decisions?
- Who carries out orders?
- Who makes sure everything is done?
- Who keeps the history?



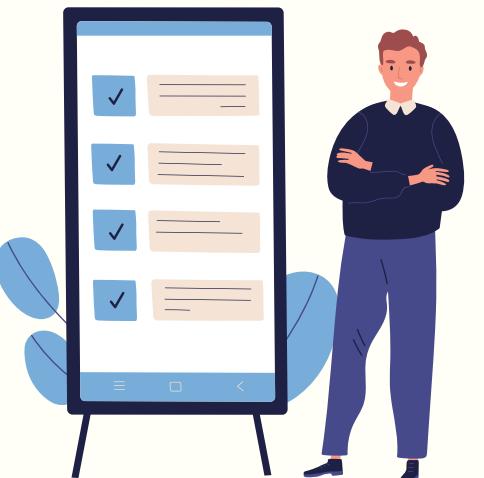
kube-api Server

- Governs the Nation
- Makes important decisions
- Decide who should know
- Face of the Nation



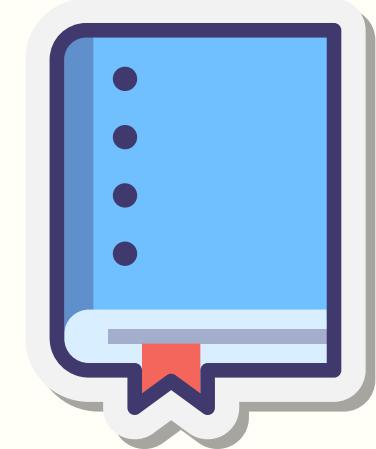
Controller Manager

- Makes sure everyone works
- Check if cities are working
- Do people have phones?
- Is the Nation healthy?



Task Manager

- Decide who does the work
- Assign tasks to people
- Decide where to give task



Central Reserve

- What were past commands?
- Who is doing the task?
- What's the task status?
- If tasks failed, why?
- Who lives in the Nation?
- Who do people talk to?

Important Components

- Who makes the decisions?
- Who carries out orders?
- Who makes sure everything is done?
- Who keeps the history?



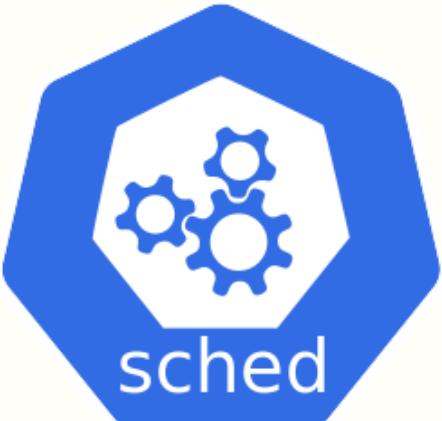
kube-api Server

- Governs the Nation
- Makes important decisions
- Decide who should know
- Face of the Nation



Controller Manager

- Makes sure everyone works
- Check if cities are working
- Do people have phones?
- Is the Nation healthy?



Kube Scheduler

- Decide who does the work
- Assign tasks to people
- Decide where to give task



Central Reserve

- What were past commands?
- Who is doing the task?
- What's the task status?
- If tasks failed, why?
- Who lives in the Nation?
- Who do people talk to?

Important Components

- Who makes the decisions?
- Who carries out orders?
- Who makes sure everything is done?
- Who keeps the history?



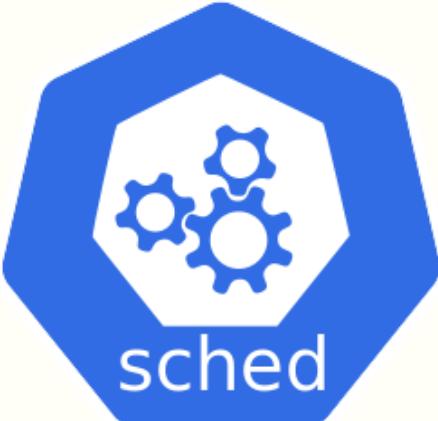
kube-api Server

- Governs the Nation
- Makes important decisions
- Decide who should know
- Face of the Nation



Controller Manager

- Makes sure everyone works
- Check if cities are working
- Do people have phones?
- Is the Nation healthy?



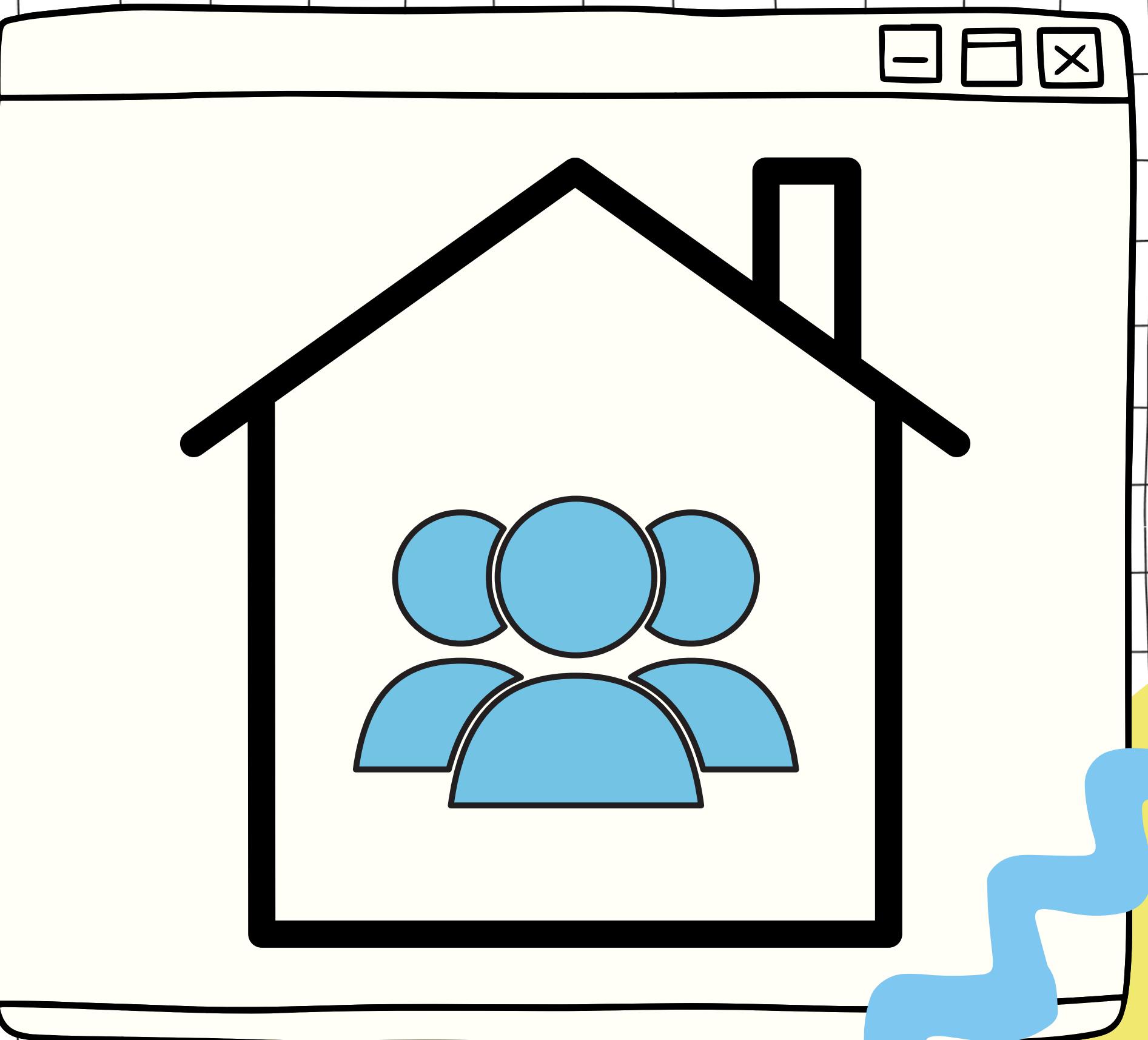
Kube Scheduler

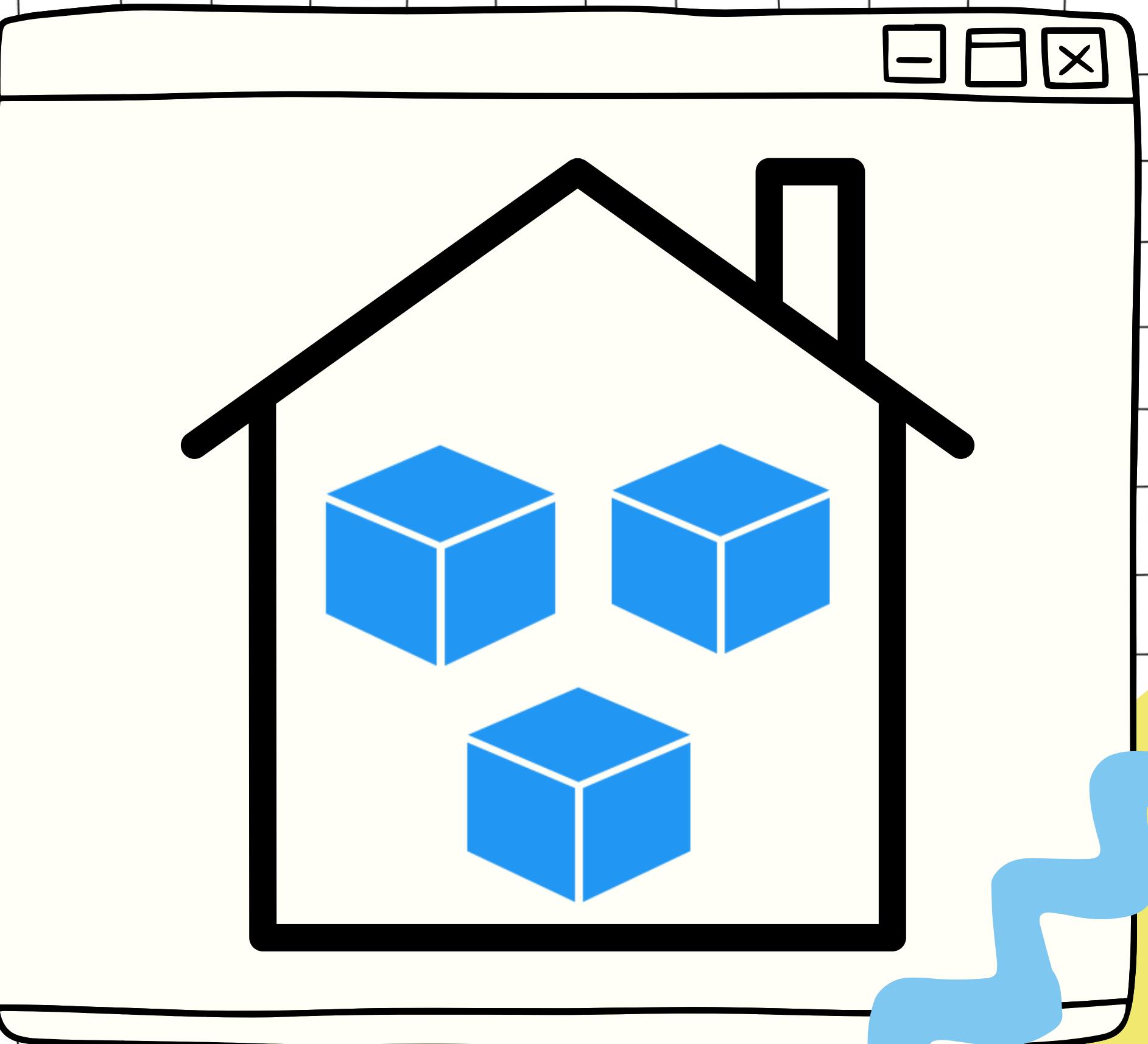
- Decide who does the work
- Assign tasks to people
- Decide where to give task

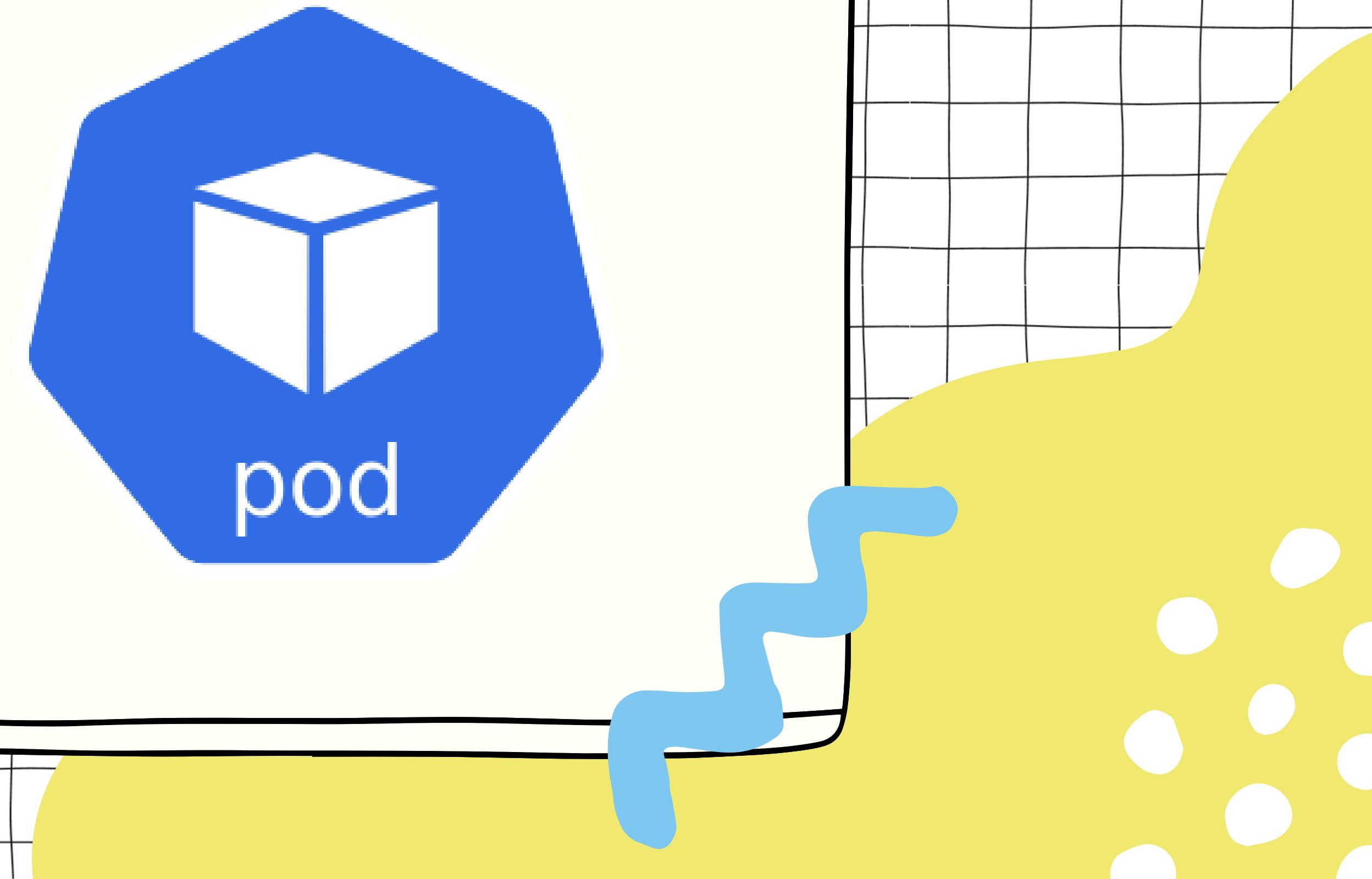
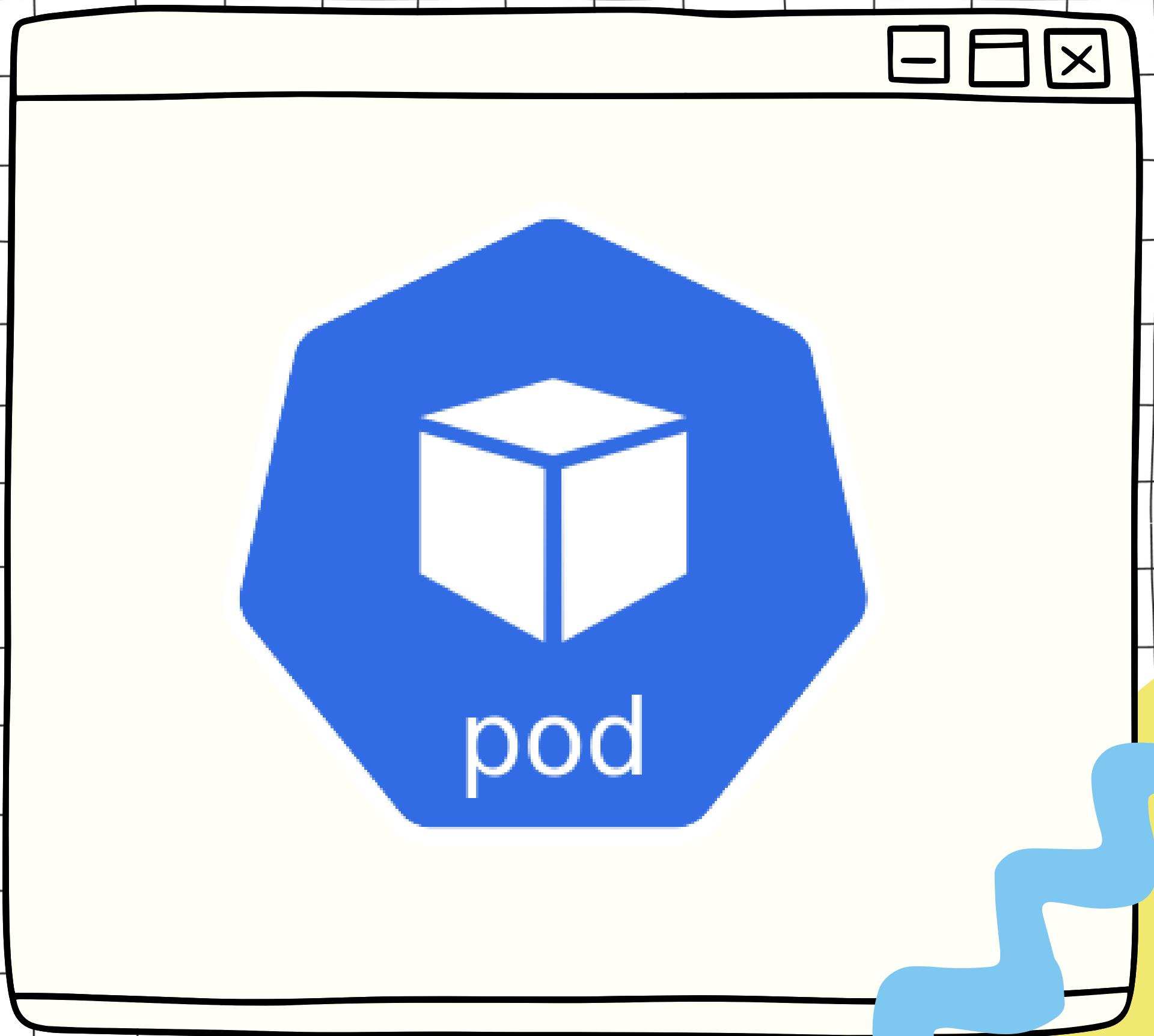


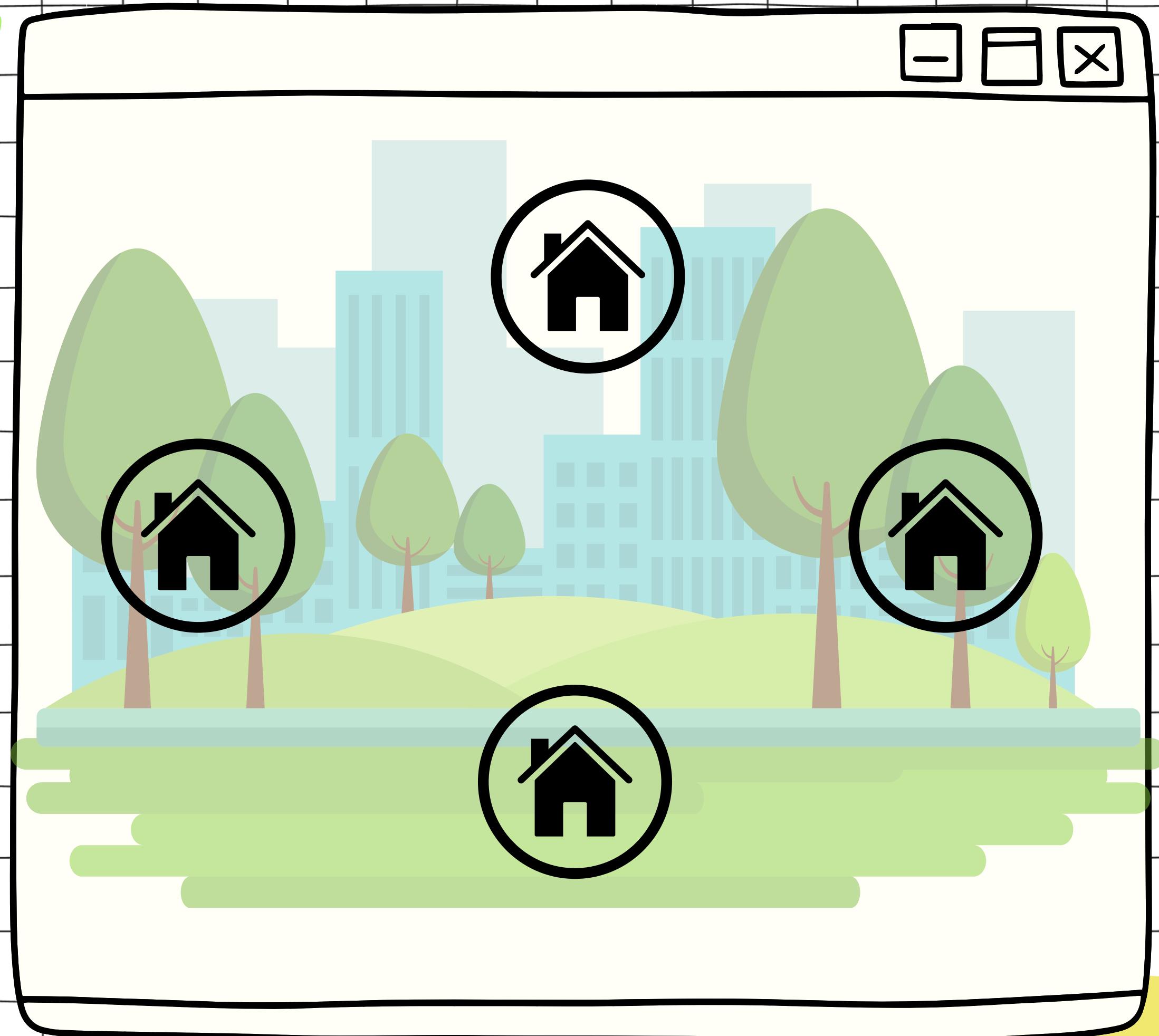
ETC-D

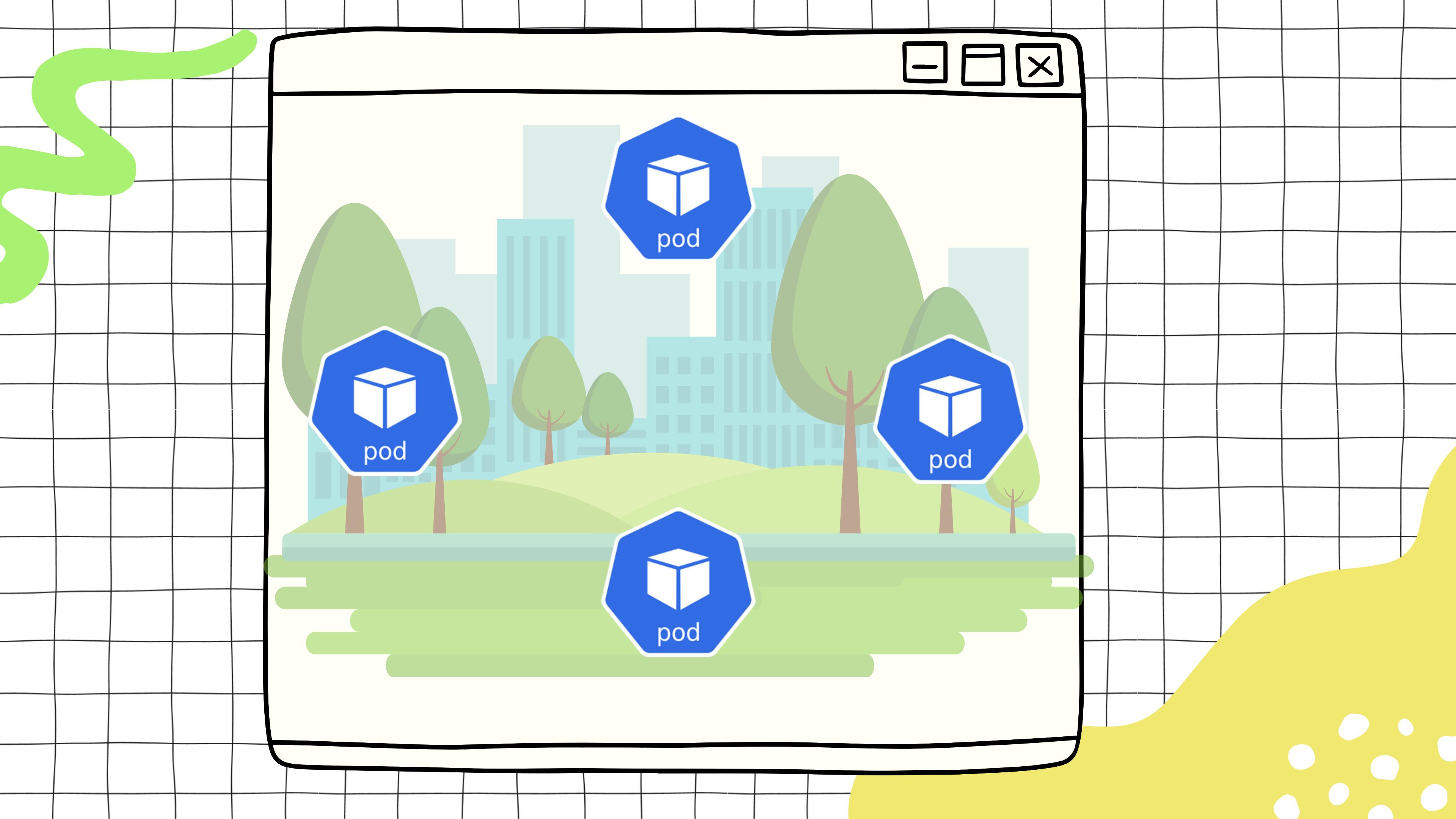
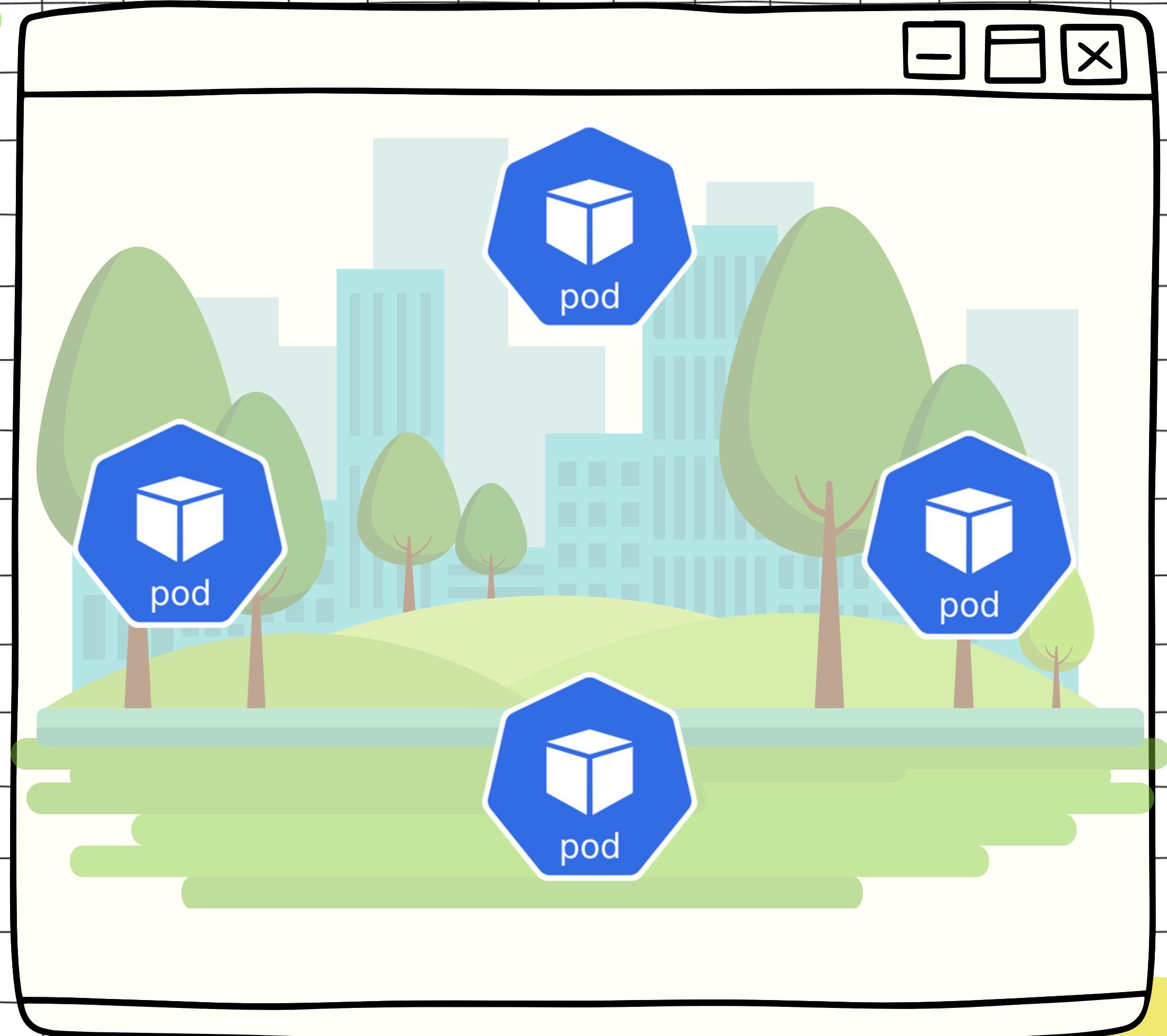
- What were past commands?
- Who is doing the task?
- What's the task status?
- If tasks failed, why?
- Who lives in the Nation?
- Who do people talk to?

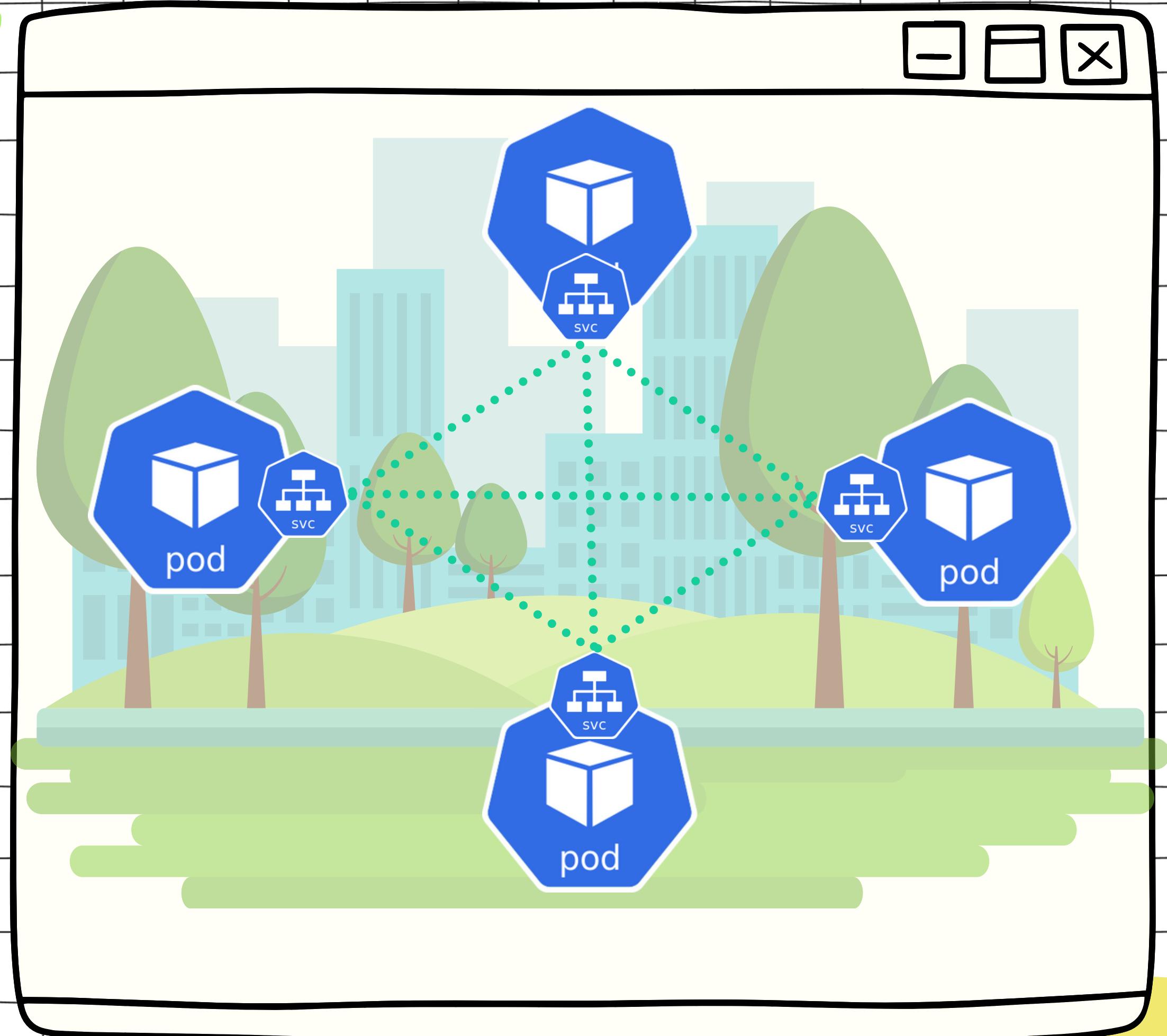








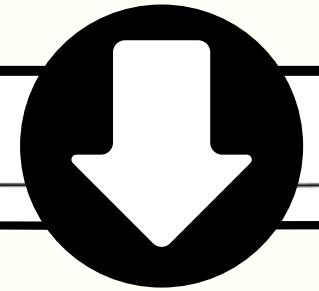
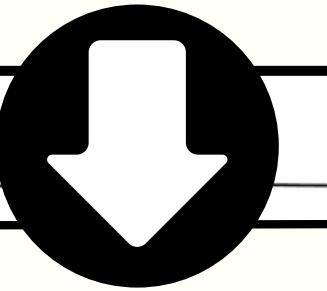




The hardest workers

The ones who do the dirty work to build and maintain the Nation

...



Builder

- Builds houses
- Rebuilds destroyed houses based on a contract
- Make sure people stay in houses
- Exist in every city

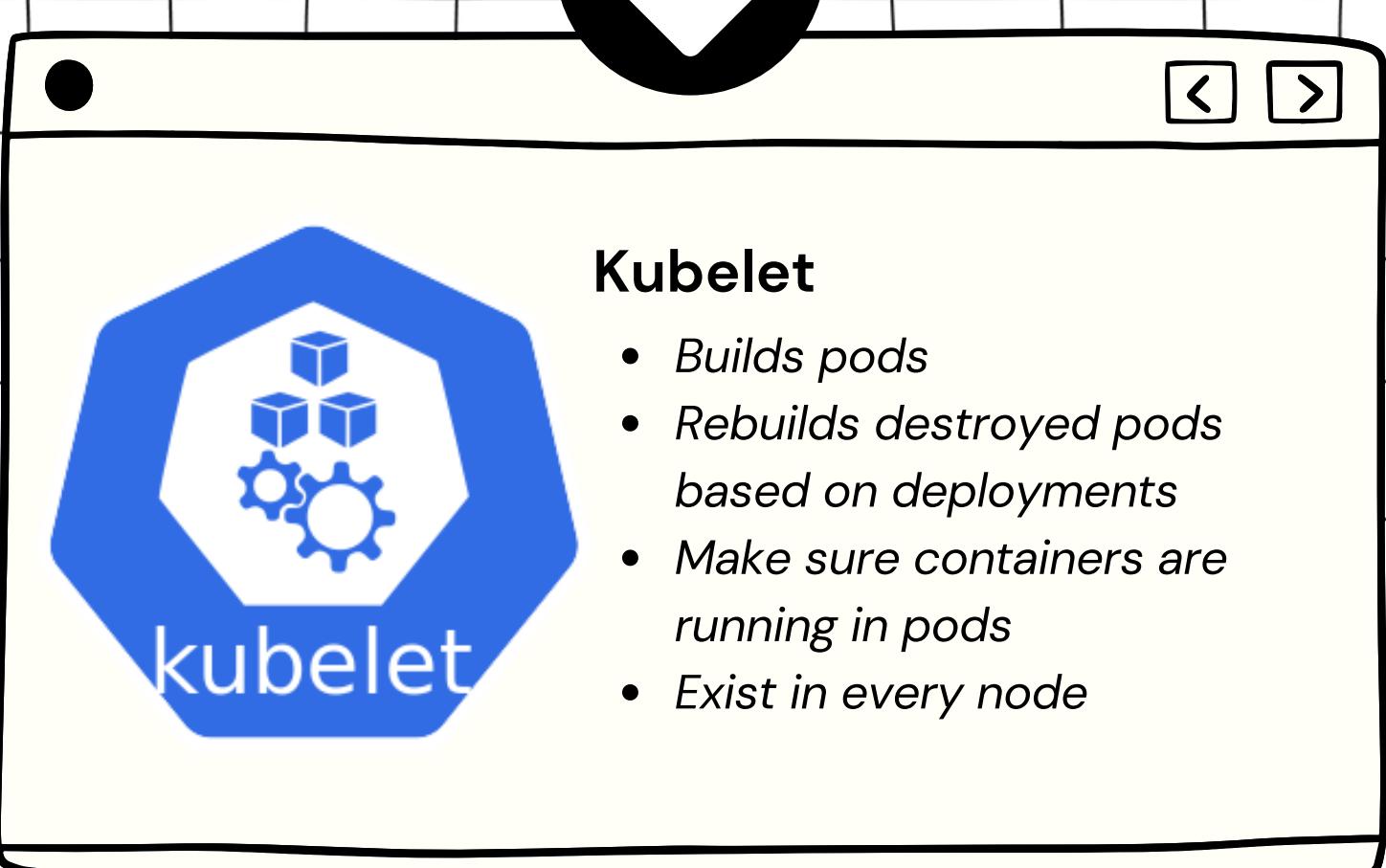


Communications

- Make sure everyone can talk
- Delivers messages to people
- Enforce comm rules
- Exist in every city

The hardest workers

The ones who do the dirty work to build and maintain the Cluster



Kubelet

- Builds pods
- Rebuilds destroyed pods based on deployments
- Make sure containers are running in pods
- Exist in every node

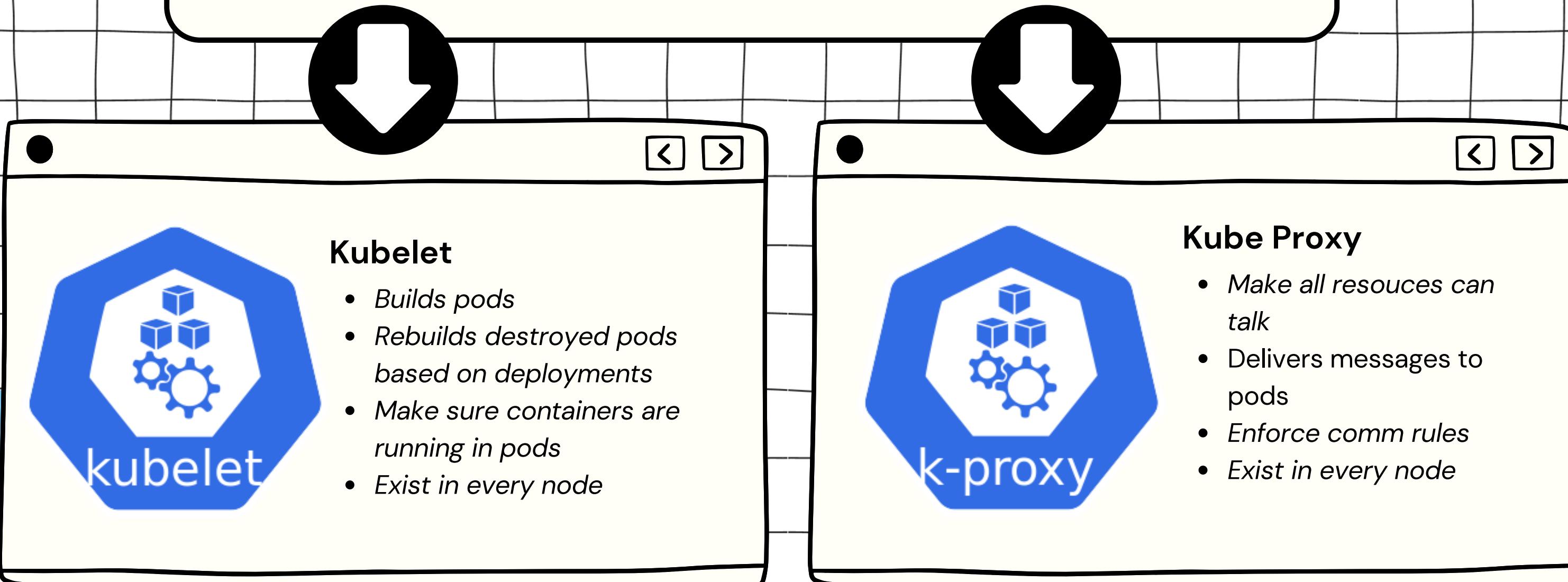


Communications

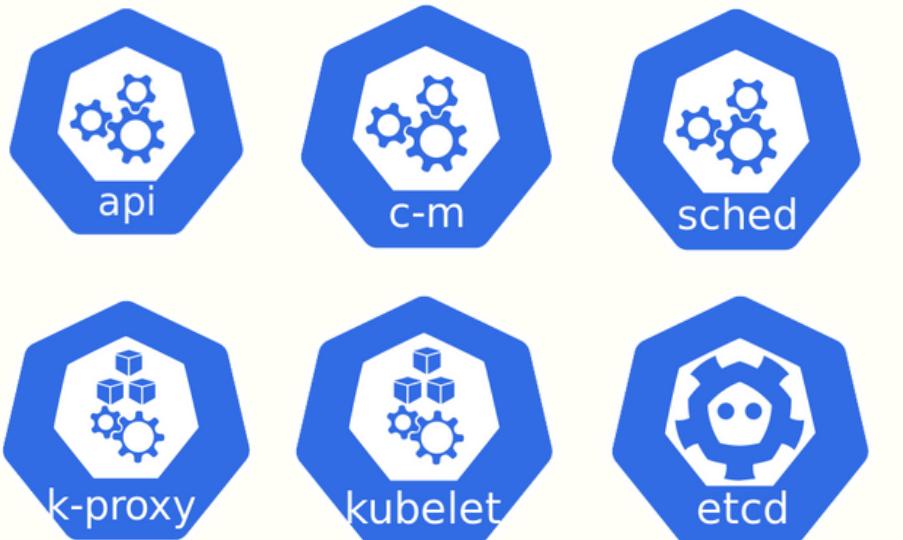
- Make sure everyone can talk
- Delivers messages to people
- Enforce comm rules
- Exist in every city

The hardest workers

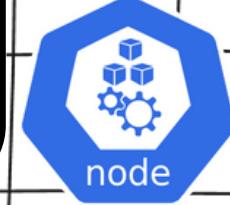
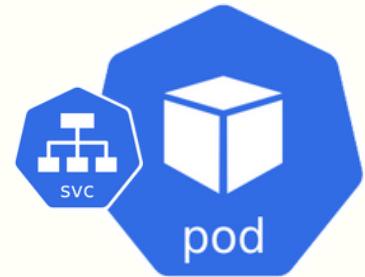
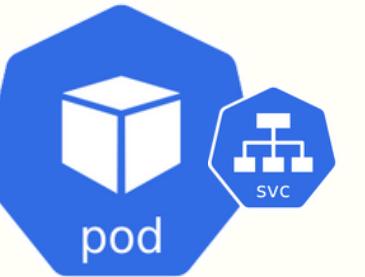
The ones who do the dirty work to build and maintain the Cluster



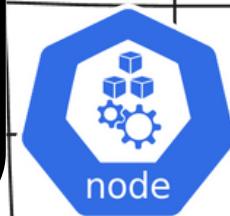
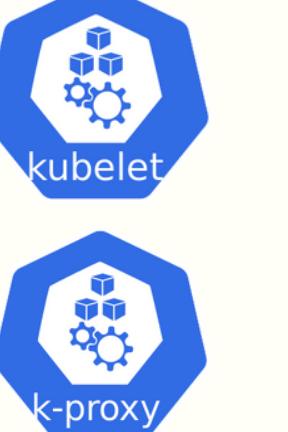
Control Plane



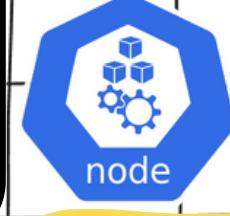
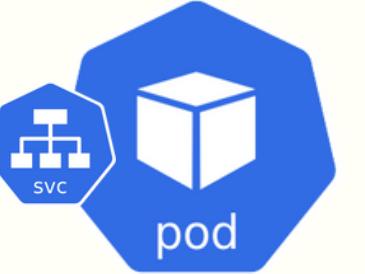
Park City



Industrial City



Night City Node





Siddhant Khisty
Community Manager

i_siddhantk



Aakansha Priya
DevRel

AakanshaPriya_



THANKYOU

