

# Software Diagrams

Parameswari Ettiappan

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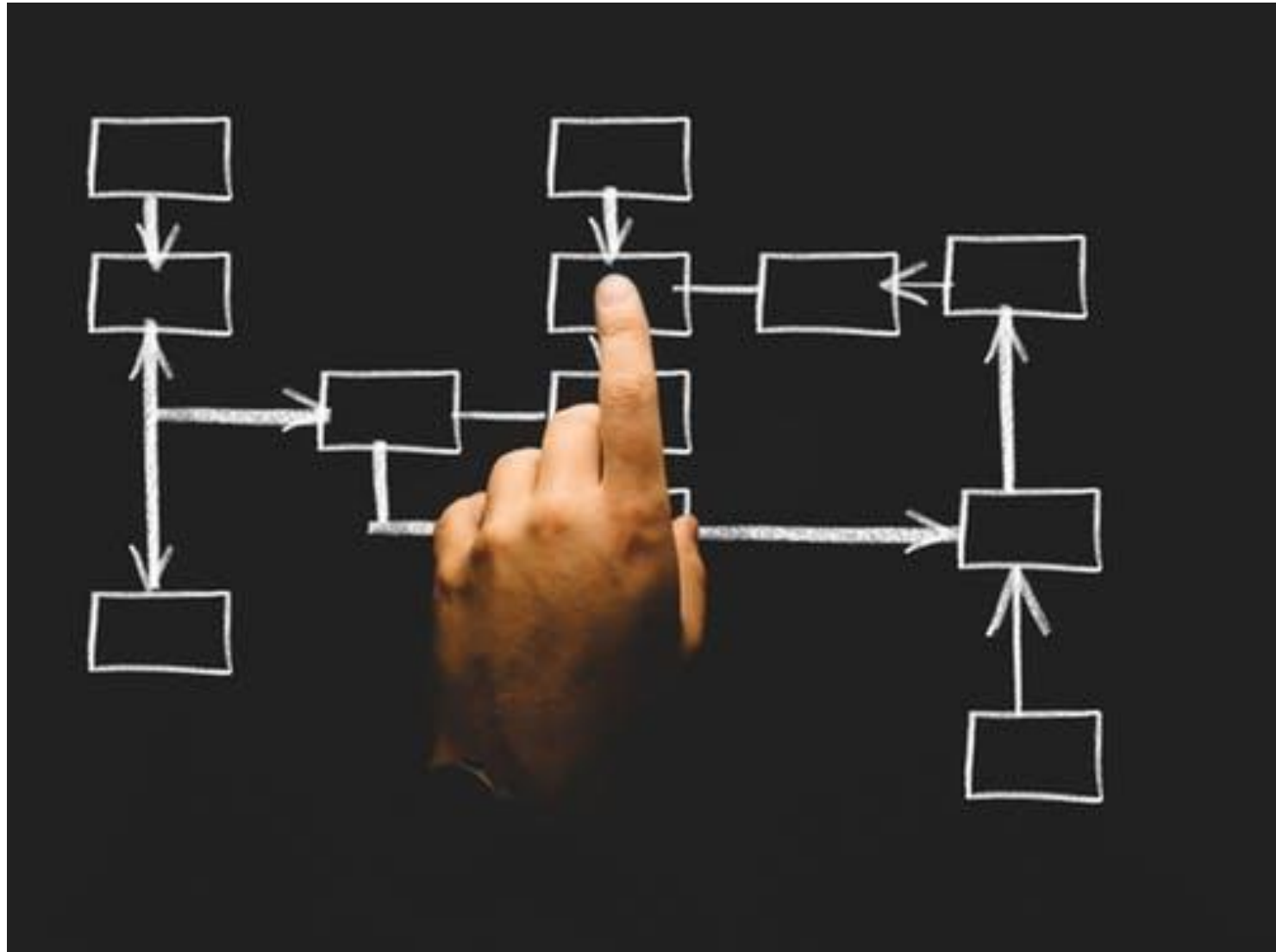
# Goals

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- Software Modeling Diagrams and Tools

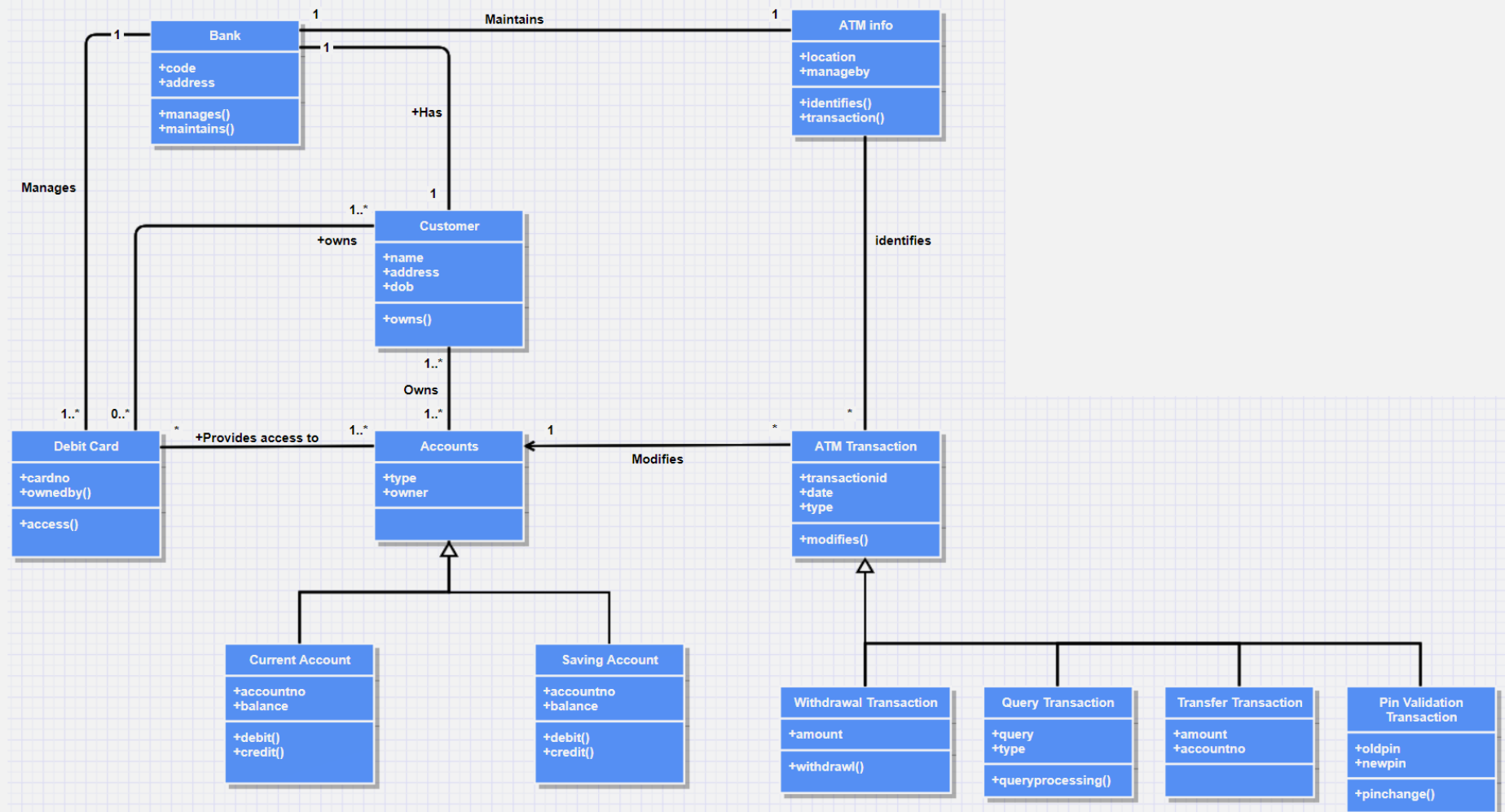
# Different types of diagrams in software



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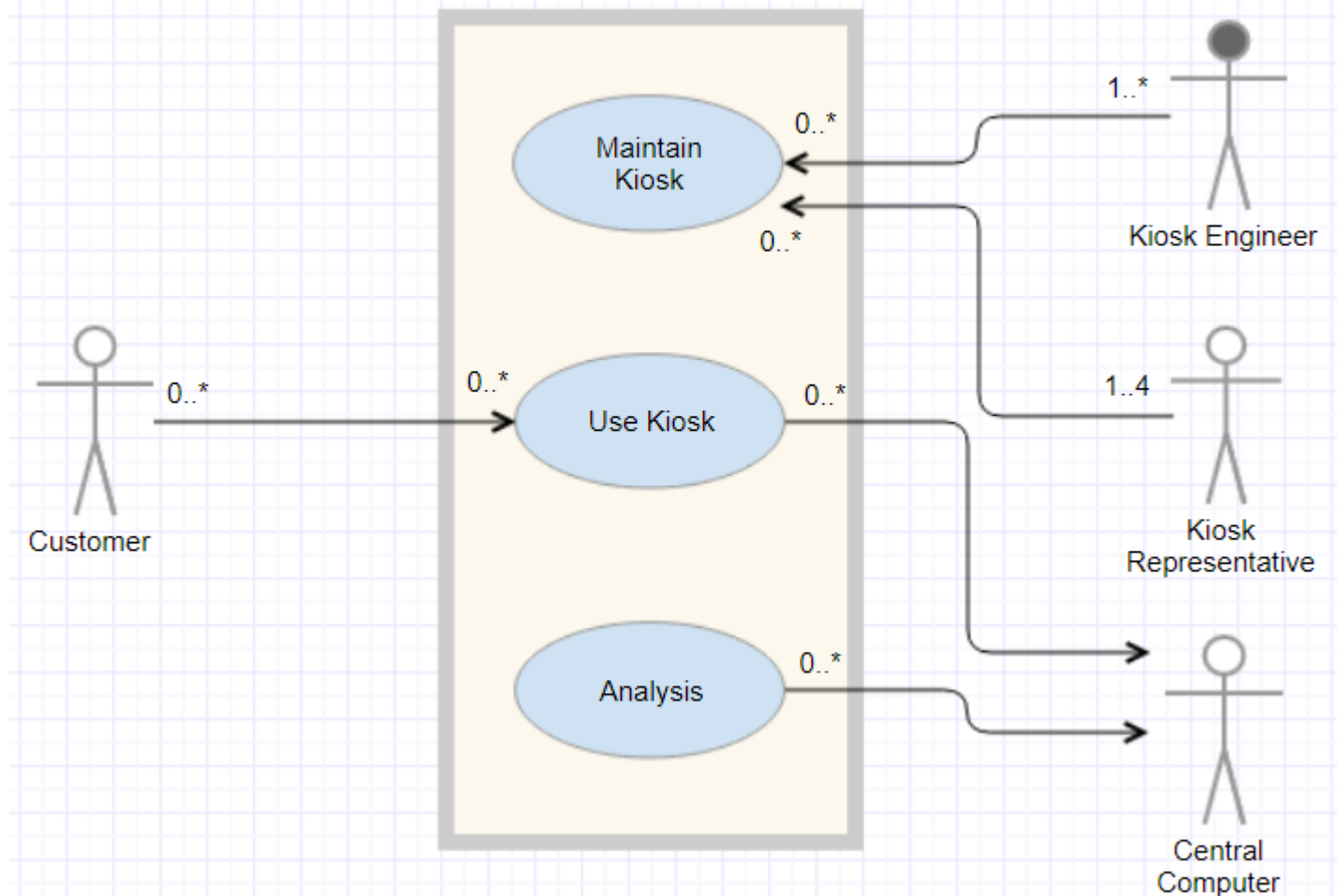
## Class Diagram for ATM



# Different types of diagrams in software



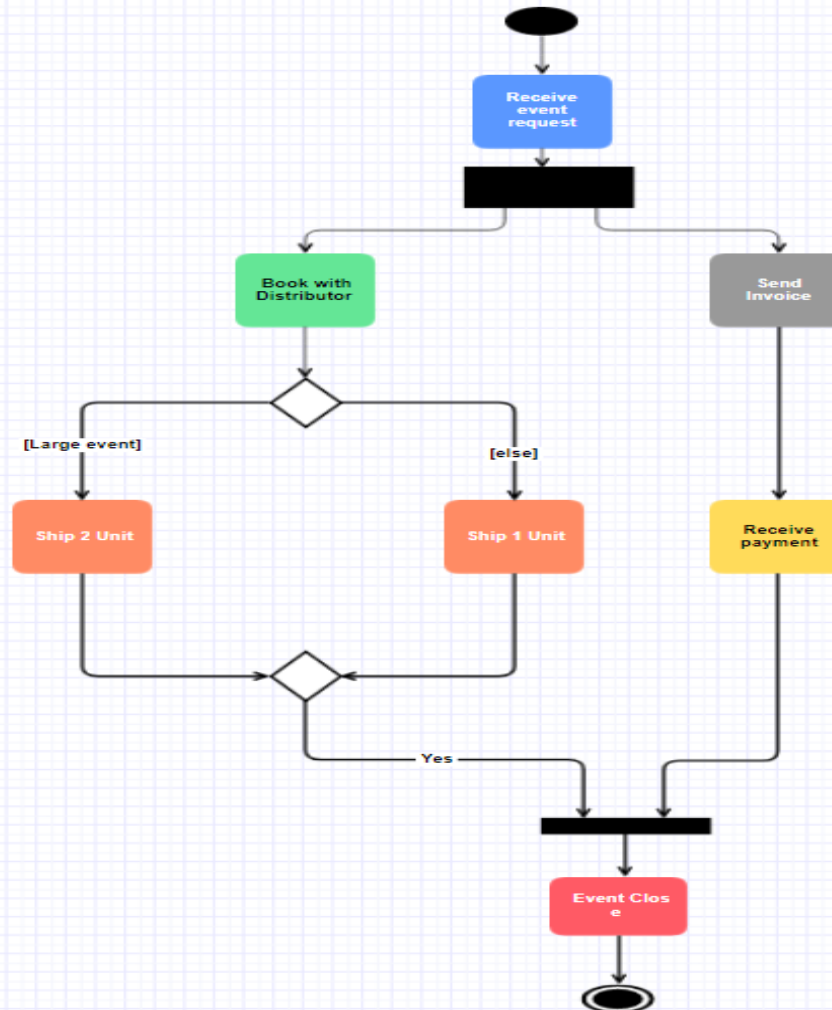
## Simple Use Case Diagram



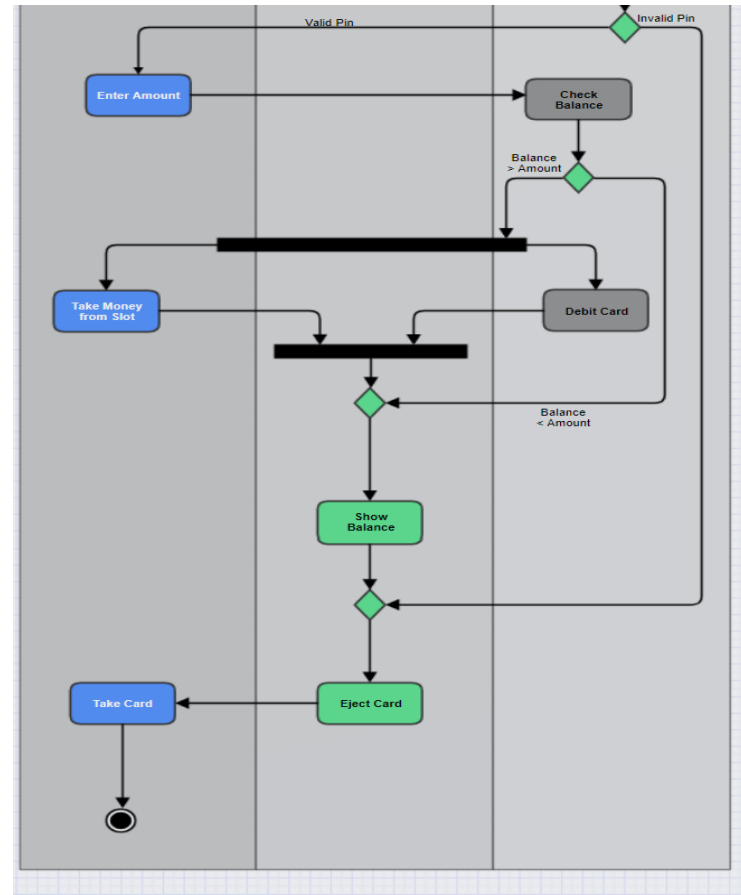
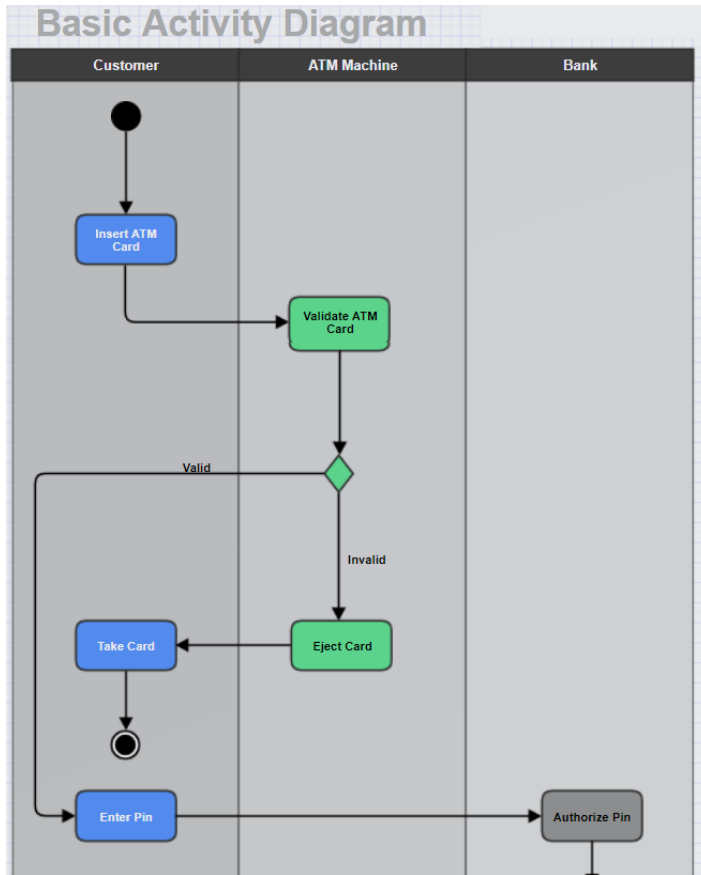
# Different types of diagrams in software



Basic Activity Diagram



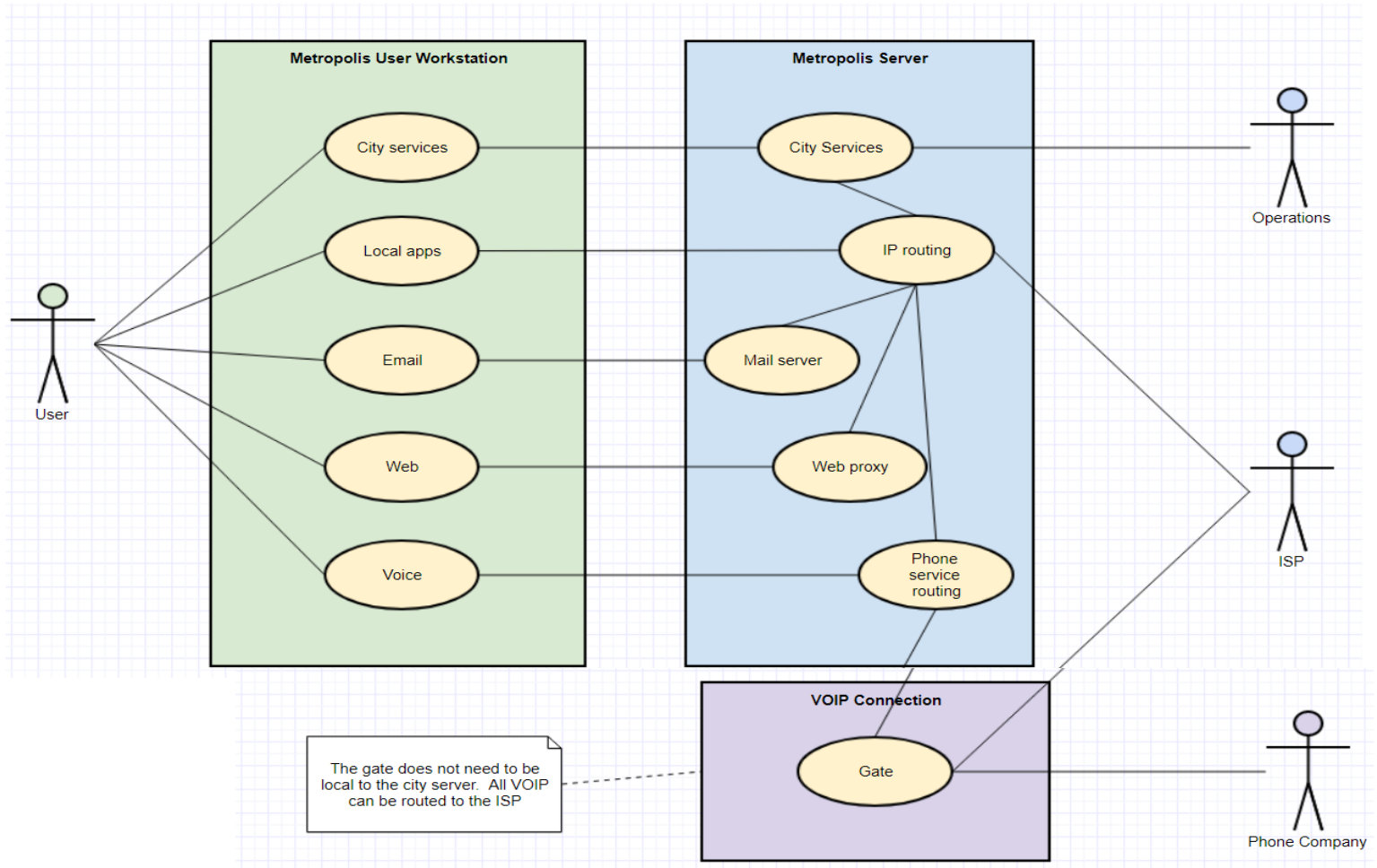
# Different types of diagrams in software



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## Communication Activity Diagram

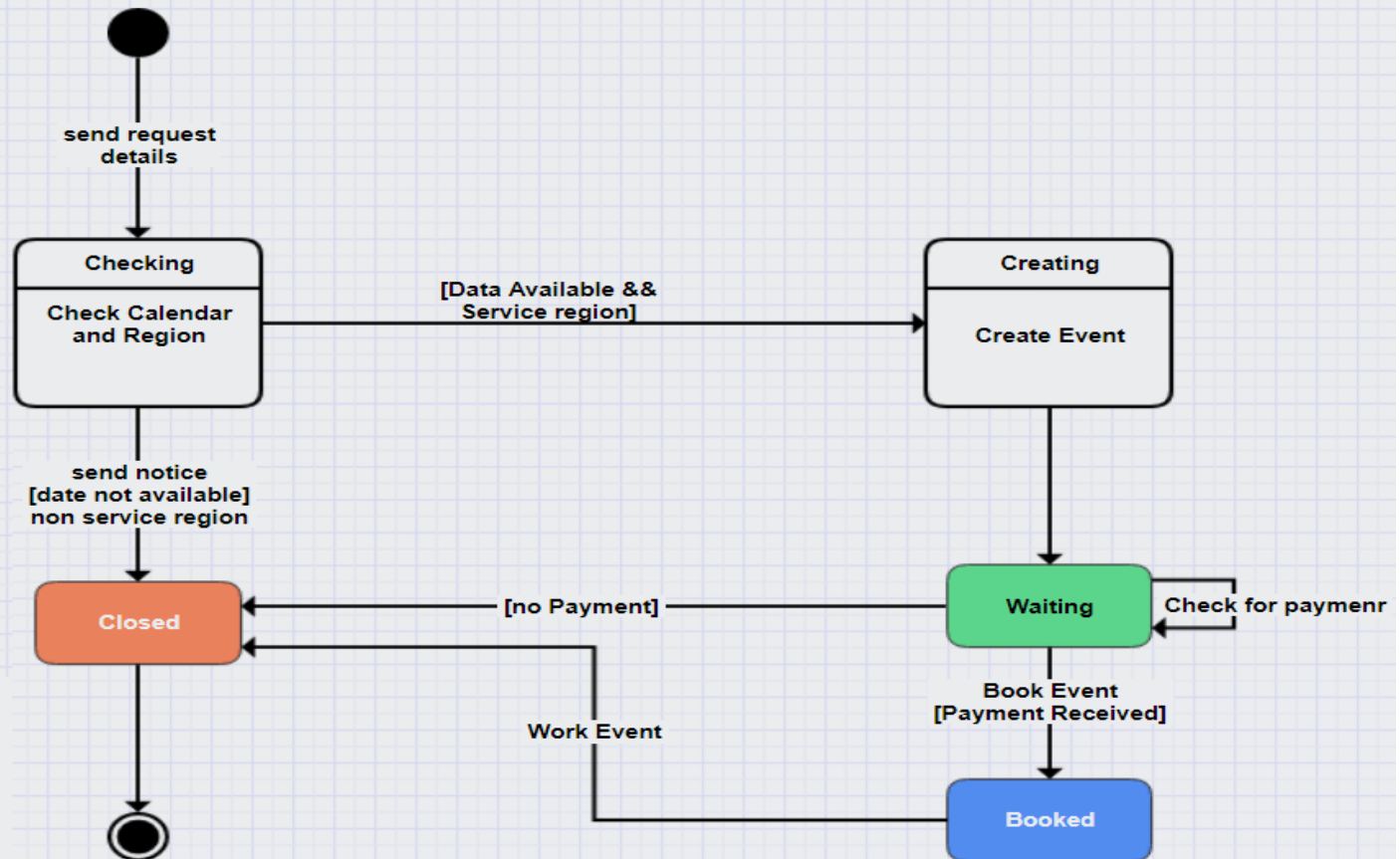




# Different types of diagrams in software



## Basic State Diagram

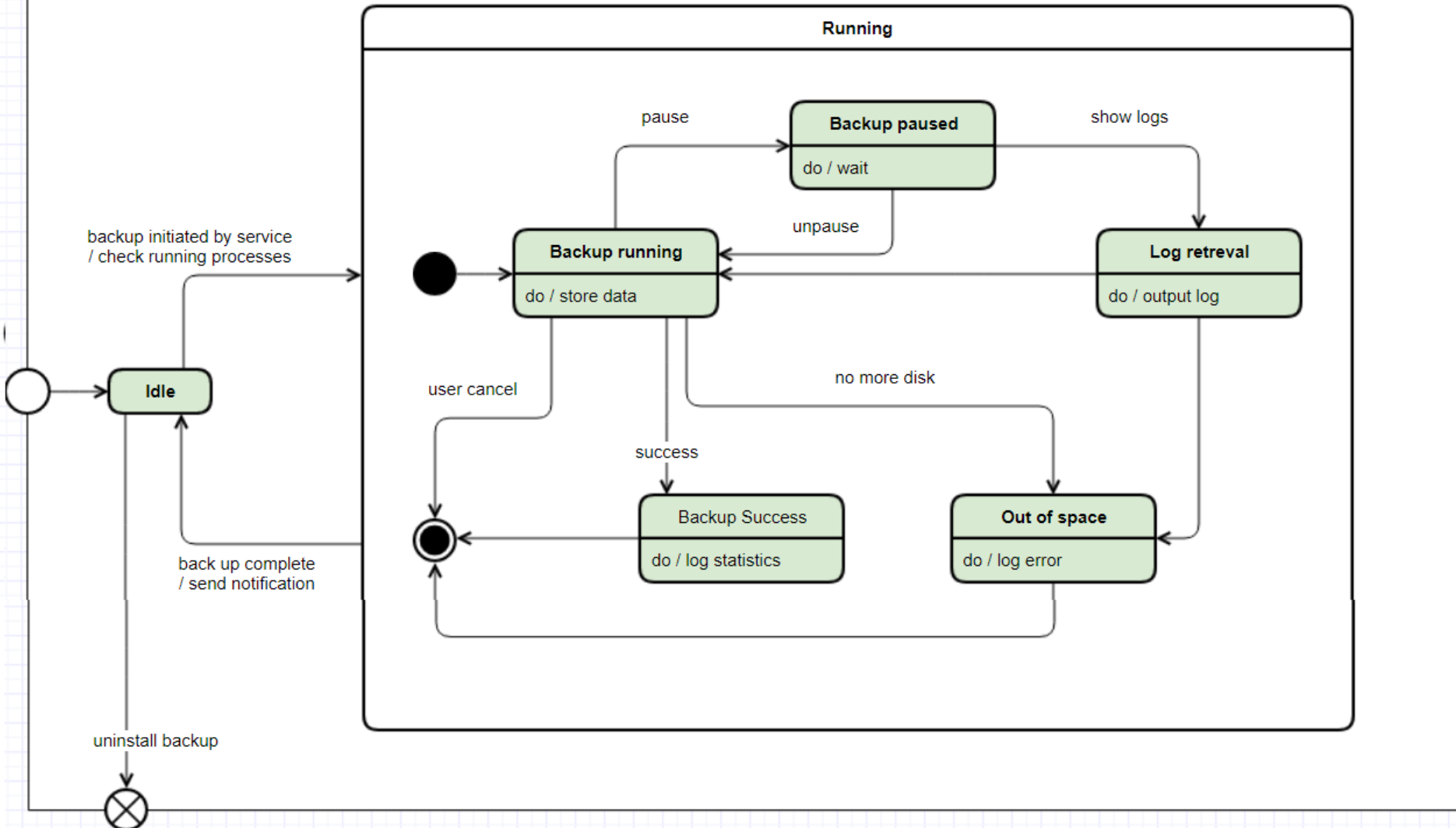


# Different types of diagrams in software



Backup System

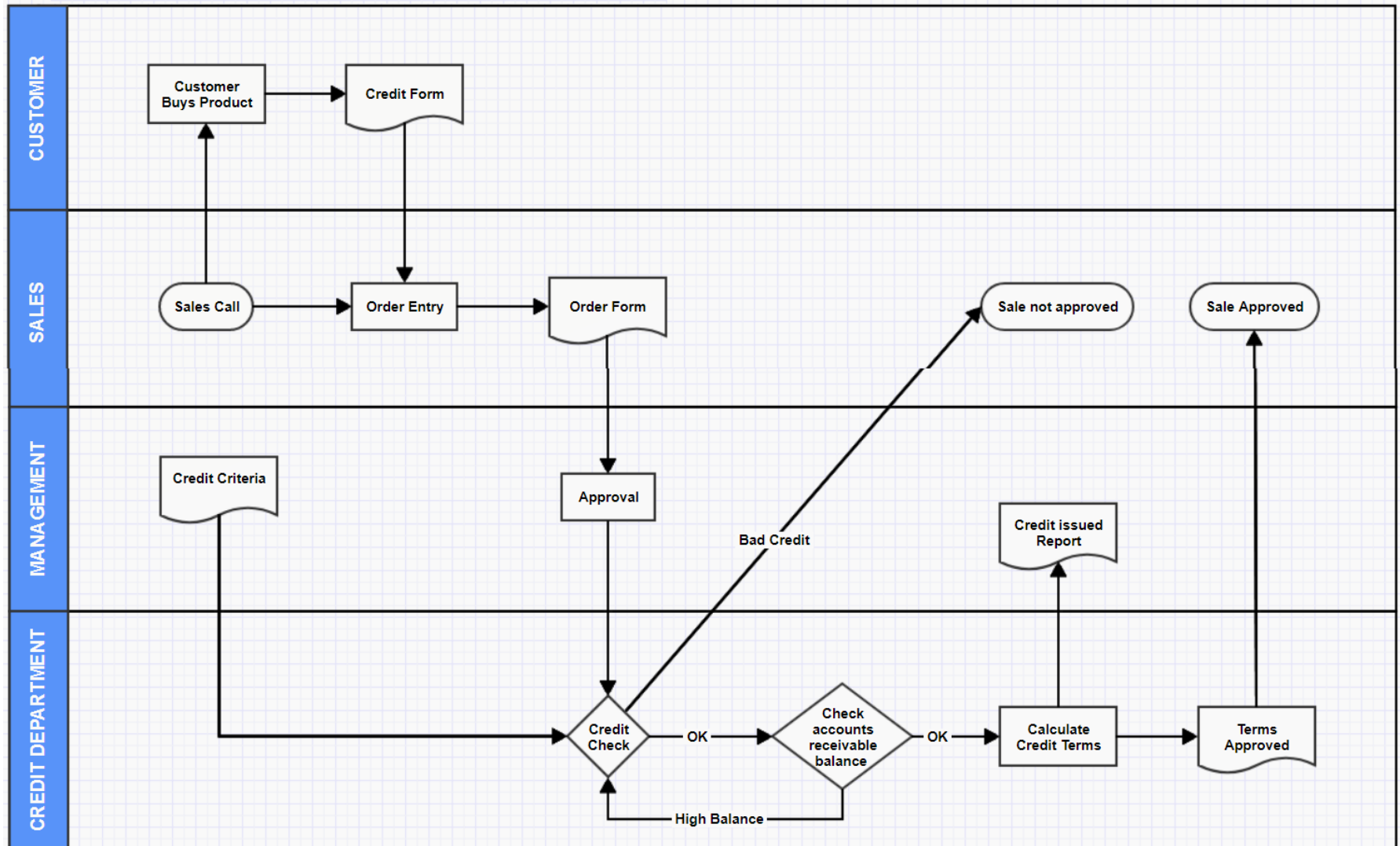
## Database backup- statemachine diagram



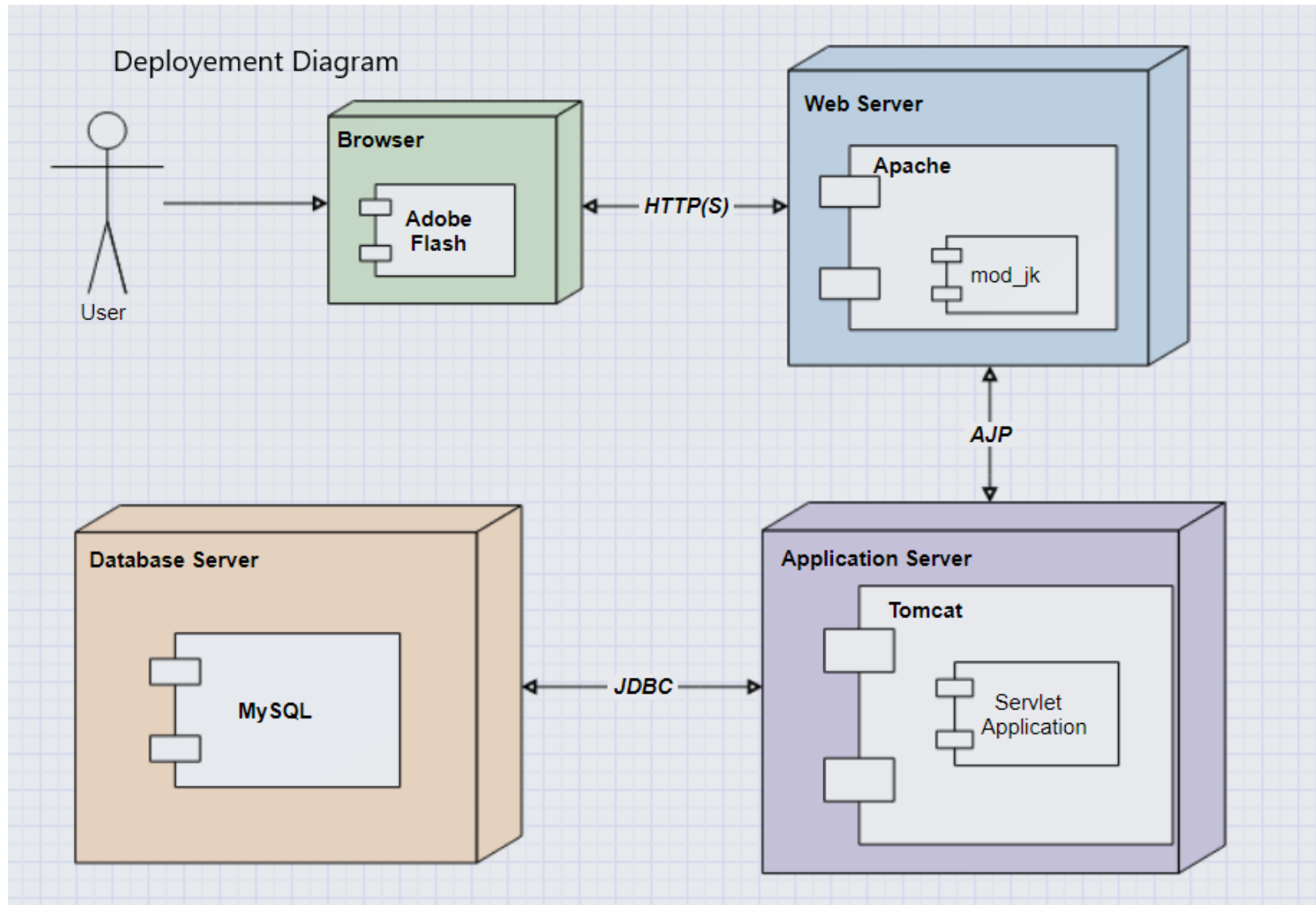
# Different types of diagrams in software



Business Process Flow Diagram



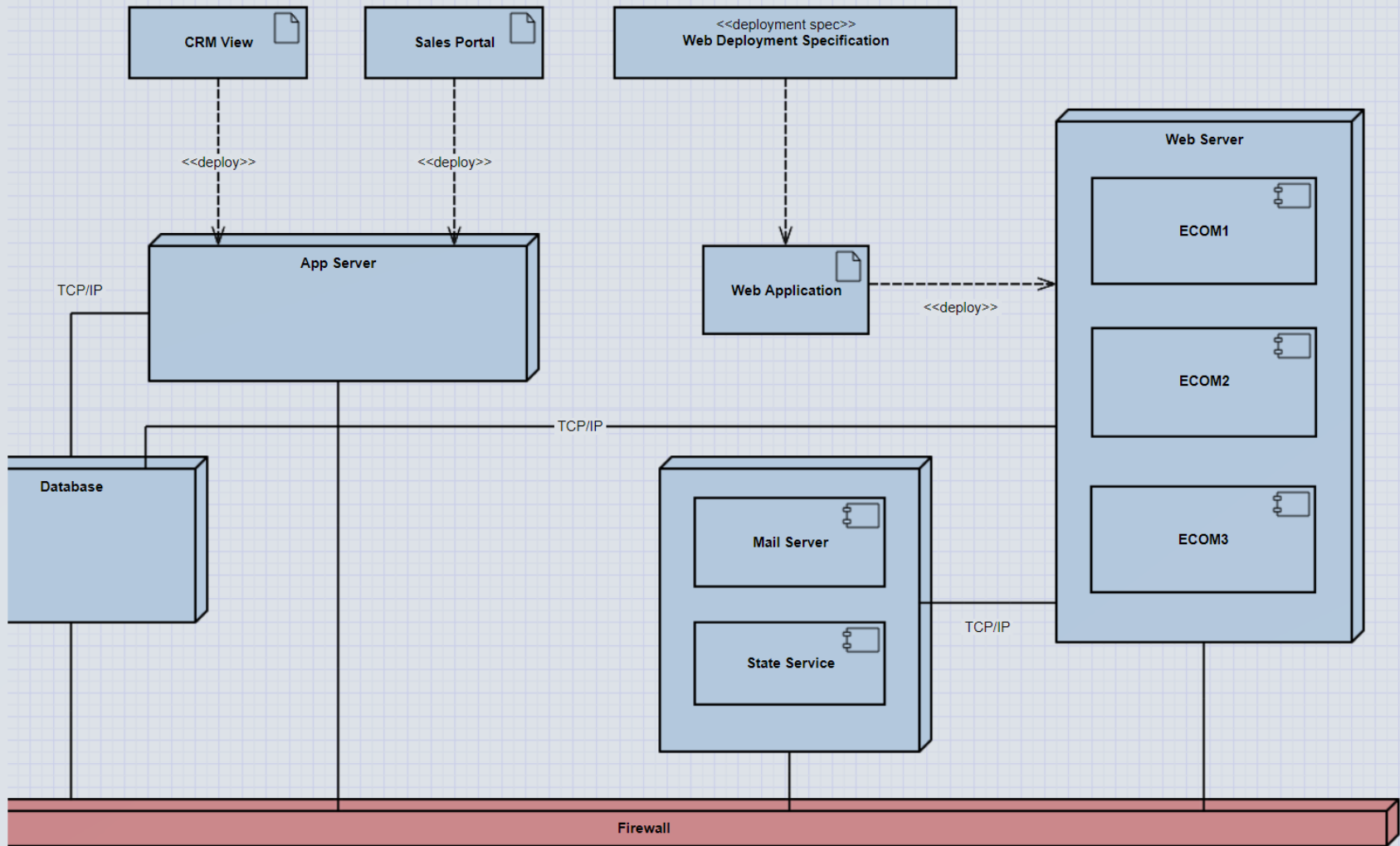
# Different types of diagrams in software



# Different types of diagrams in software



## Deployment Diagram

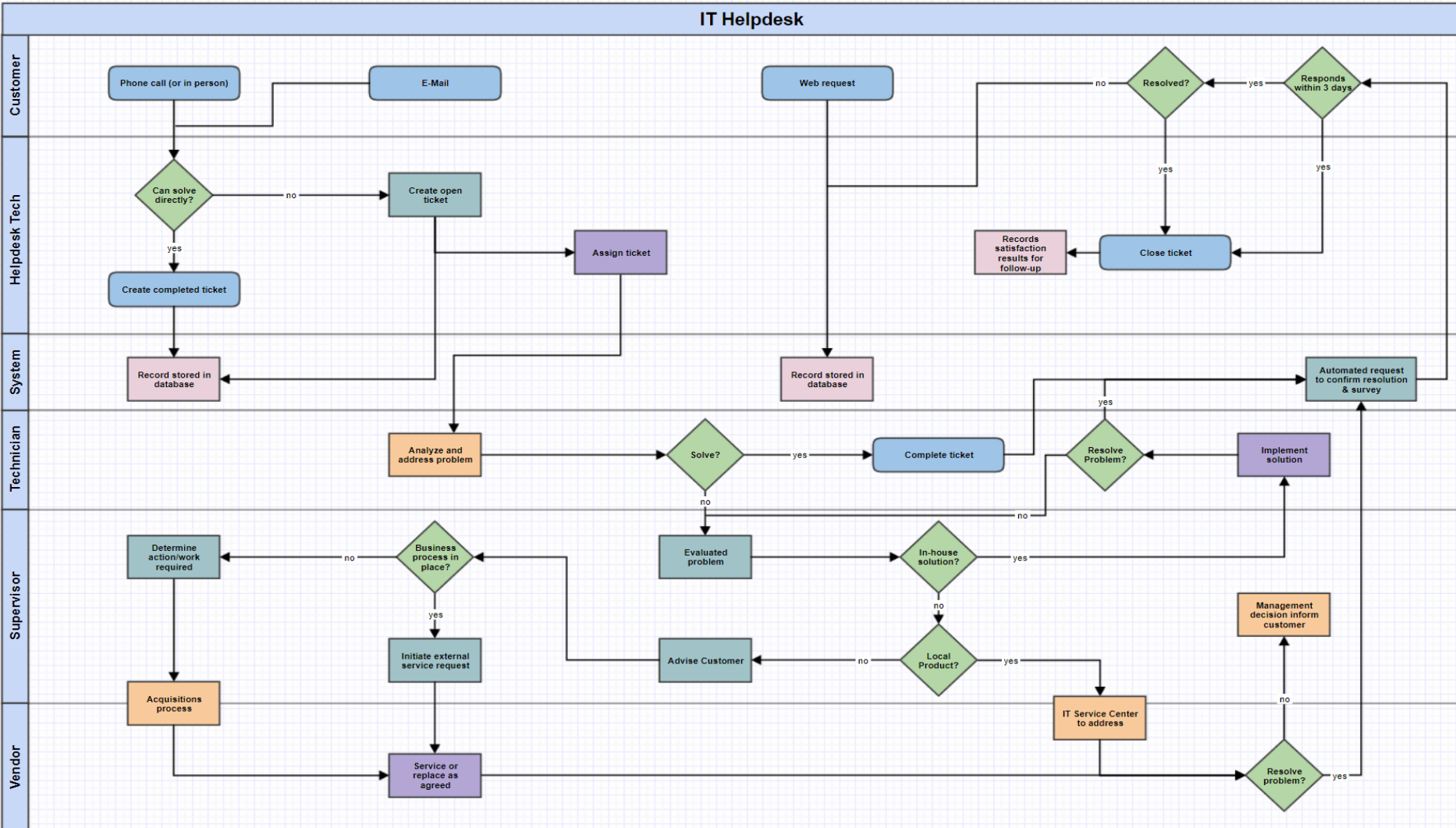


# Different types of diagrams in software



IT Helpdesk Flow

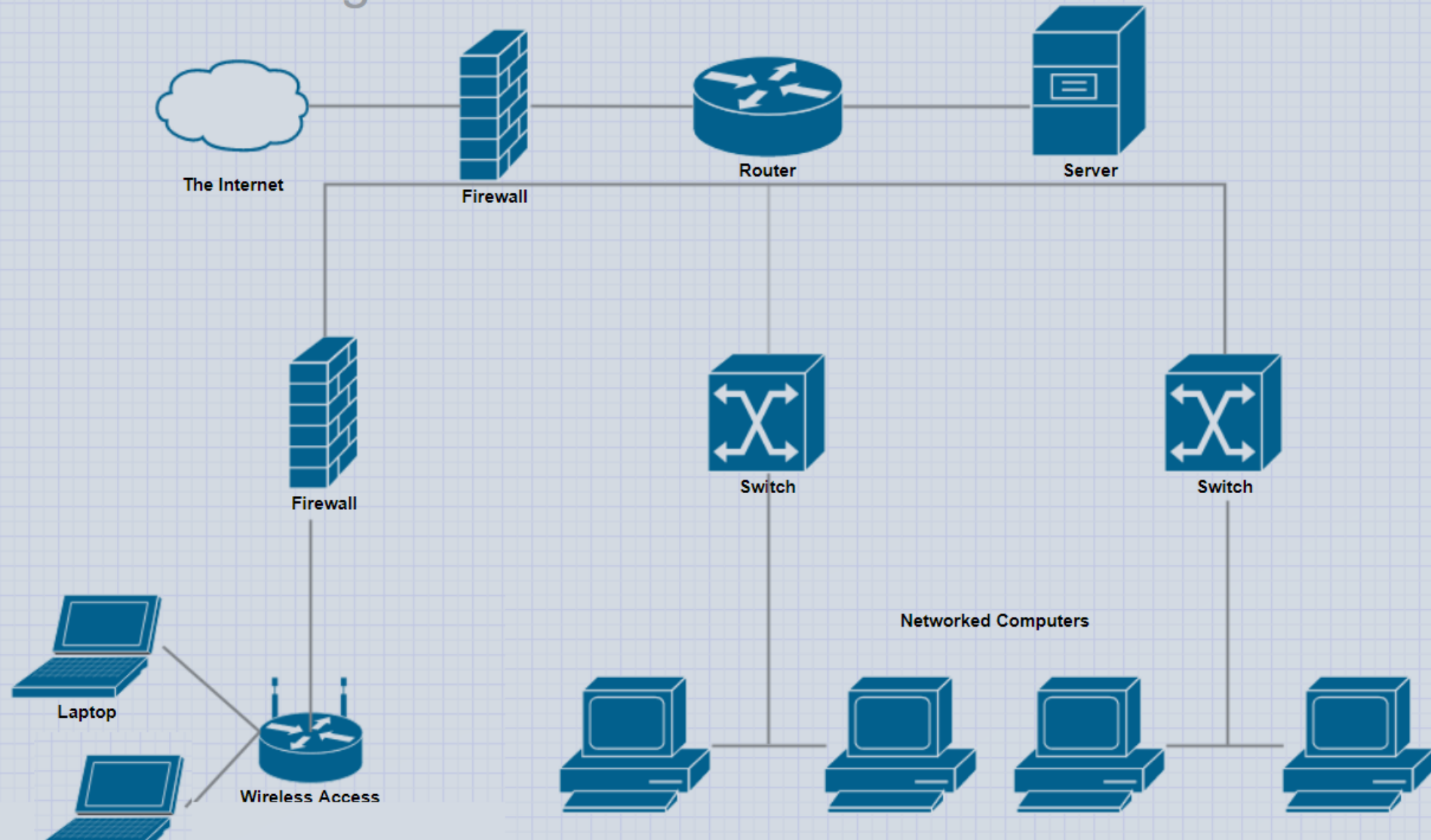
## IT Helpdesk



# Different types of diagrams in software



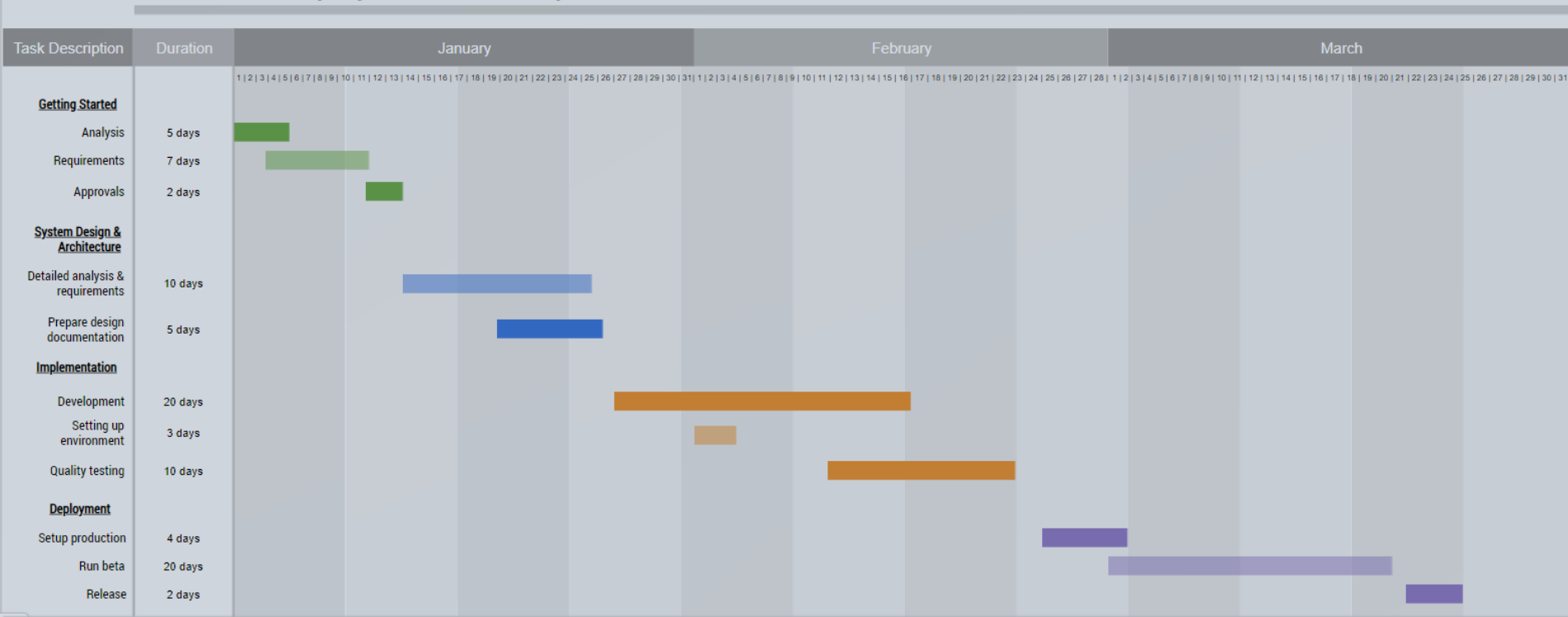
## Network Diagram



# Different types of diagrams in software

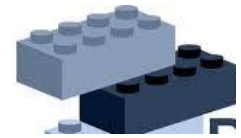


## Product Deployment Roadmap

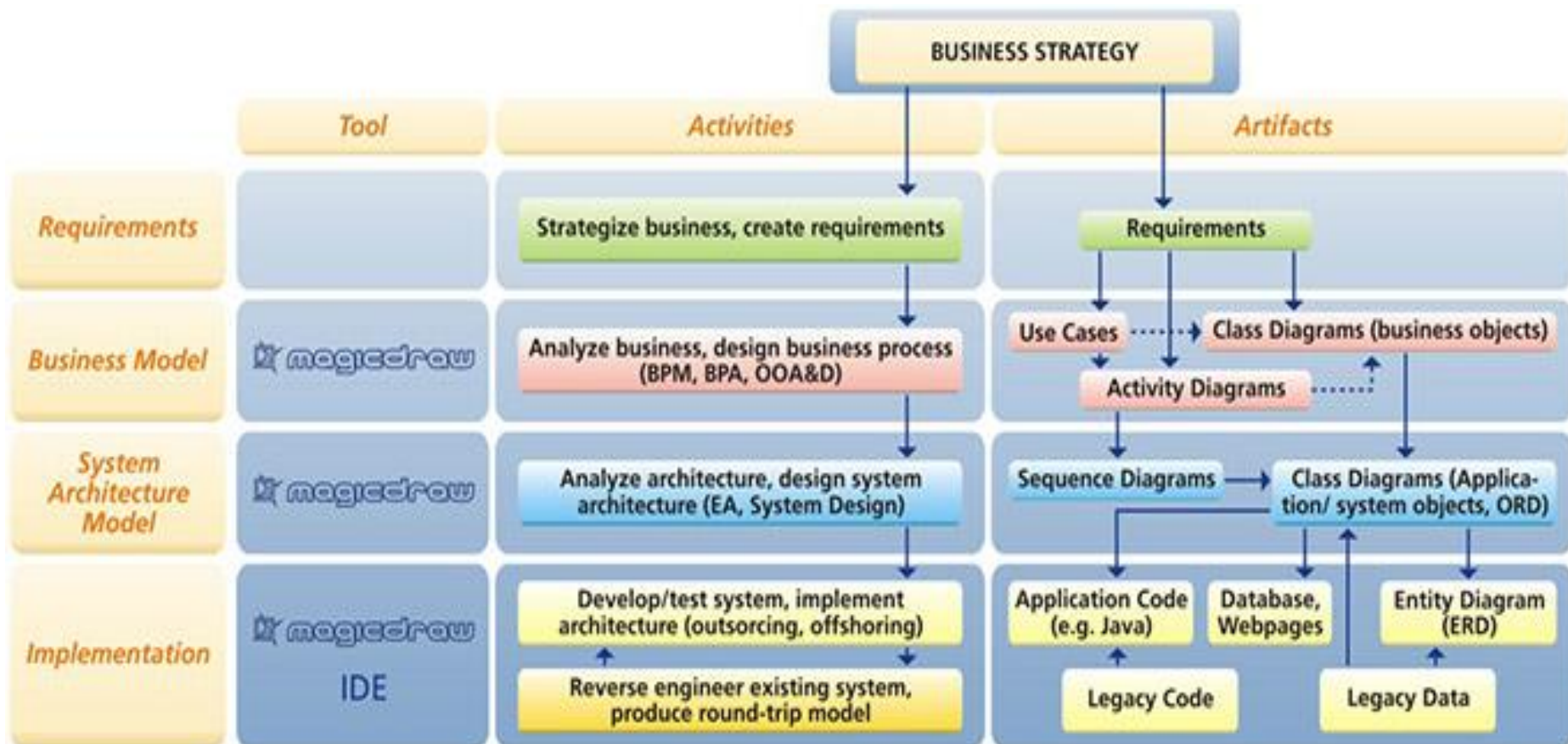




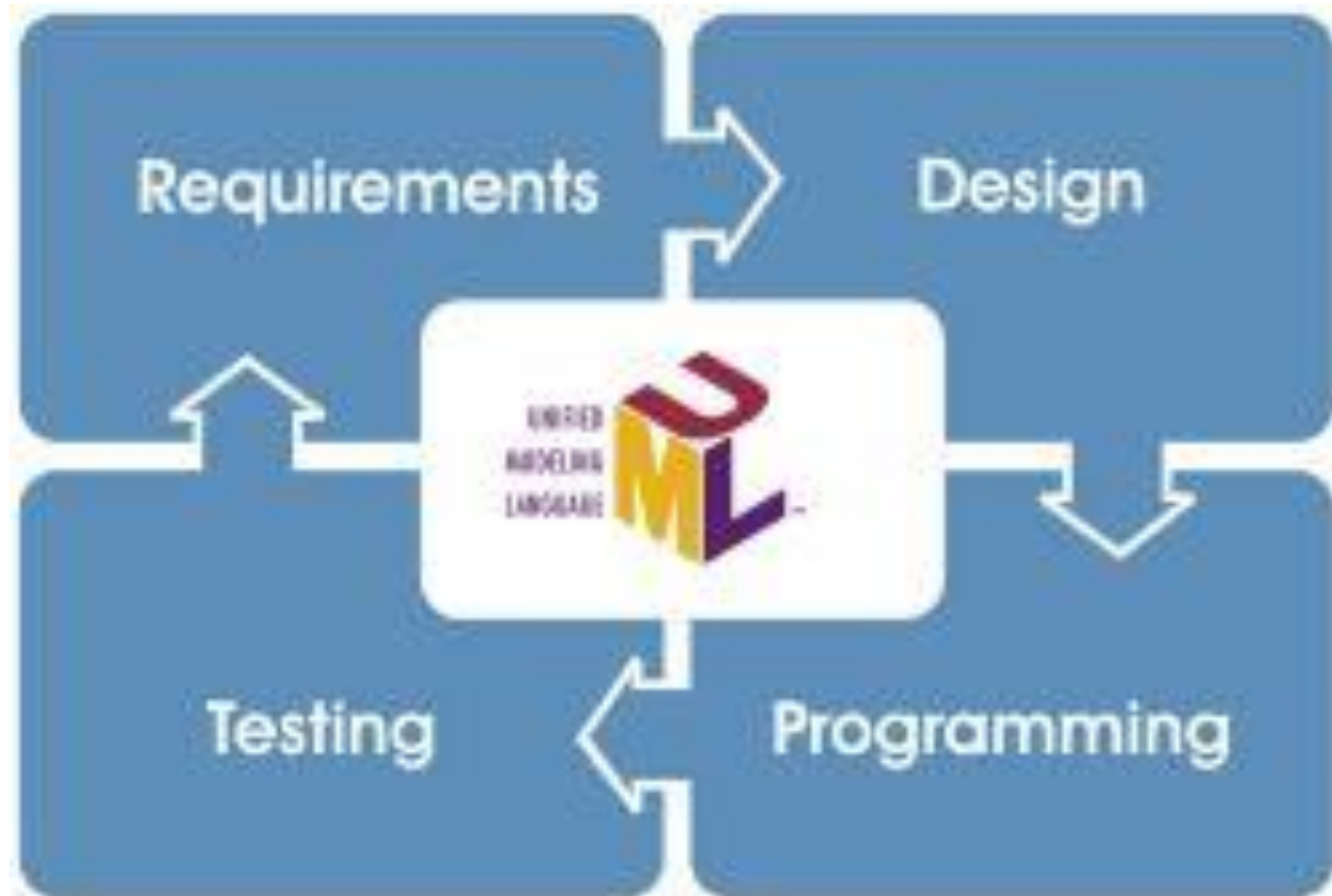
# Software Engineering



## Magicdraw



# Software Engineering



# Banking Case Study

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- Models

# Tools

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- Draw.io
- **Gliffy**
- Edraw Max
- Cacao
- ProcessOn
- Lucidchart
- Creately
- Coggle

# Tools

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- Mindmeister
- yED
- SmartDraw
- Visual Paradigm
- Terrastruct



- Draw.io helps you to create a flow chart or any diagram with plenty of shapes to correctly visualize your infrastructure.
- There are more than 50 pre-defined templates to get you started in various categories.

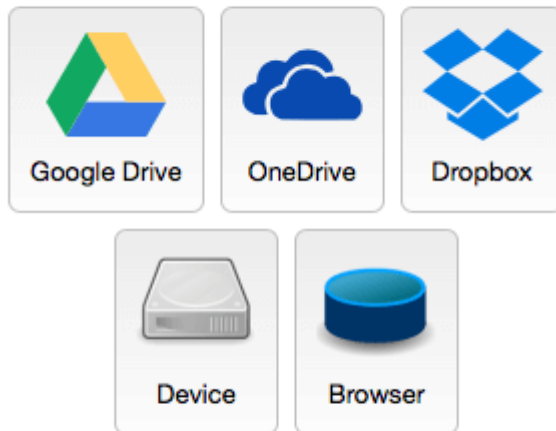


Filename:  Templates: 

- Basic (1)
- Business Processes (7)
- Charts (6)
- Engineering (7)
- Flowcharts (7)
- Mindmaps (2)
- Mockups (2)
- Network Diagrams (8)
- Other (10)
- ✓ Software Design (12)**
- Venn Diagrams (2)
- Wireframes (5)



Save diagrams to:



☒ Remember this setting

Help

Decide later



Device

Create New Diagram

Open Existing Diagram

[Not using Device?](#)

Help







- Gliffy is a fantastic drawing tool, which helps you create multiple types of a diagram like Flow Chart, Org Chart, Venn Diagram, Wireframe, Mindmap, Network design, etc.
- The user interface is similar to Draw.io. However, I see more shapes in color, which is very handy and looks attractive.



- Trusted by companies like Samsung, Dell, and IBM, Edraw Max can help you create visual-presentation in literally minutes.
- Just choose a visualization element and then add your data via spreadsheets or their simple sidebar.
- Once you're done, you can share it on social media or add them to your documents, slides, or website.



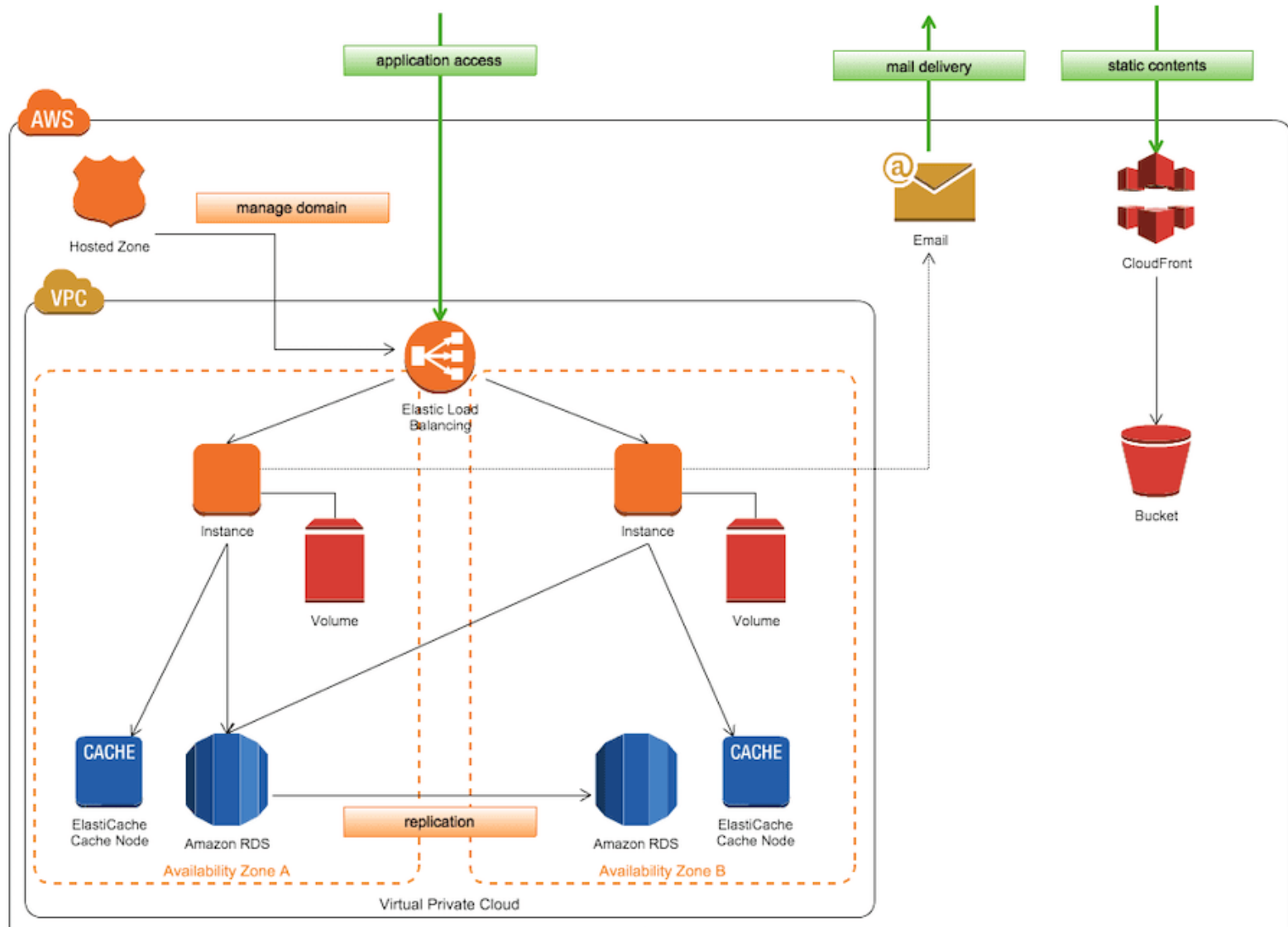
- They have over 1,000 templates in different areas, like:
- Flowchart
- Timeline
- Infographic
- Brochure
- Network visualization
- Floor plan
- Engineering plan

<https://youtu.be/neTfPiHhee8>



- Cacoo is fantastic if you are looking for real-time collaboration with drag-n-drop, grids, and revision history. It allows you to create 25 sheets with a free plan and can export in PNG format.

# Cacoo





## other sample icons



Instances



AMI



Instance with  
CloudWatch



Elastic IP



Amazon EMR



Cluster



Auto Scaling



Object



AMS Import / Export



Snapshot



Edge Location



Alarm



AWS Direct  
Connect



Route Table



VPN  
Connection



VPN  
Gateway



Customer  
Gateway



Internet  
Gateway



Router



DynamoDB



Amazon SNS



Queue



Template



Elastic Beanstalk



Amazon  
Mechanical Turk



AWS Management  
Console



Internet



- ProcessOn is another flexible online tool to help you with creating UI Mockups, Mind Maps, Flowcharts, and UML.



- Lucidchart is freemium, and the free plan comes with basic functionality but good to start with.
- You can select from more than 100 premade templates in the following categories.
- Network
- Network infrastructure
- Mindmap
- Engineering
- Business analysis
- Sitemap
- Org chart
- Flowchart
- Wireframe





- You can create one project and five diagrams in a free account with Creately. Creately let you draw a flowchart, organizational chart, wireframe, network diagram, infographics, and much more.
- It's a complete drag-n-drop, so creating an infrastructure diagram or flowchart is easy.

## Diagram Examples Drawn Using Creately



Flowcharts  
& Workflow



Organizational  
Charts



Interactive  
Sitemaps



Wireframes  
& UI Mockups



UML  
Diagrams



Mind  
Maps



Network  
Diagrams



Gantt  
Charts



K-12  
Templates



Infographics

More ▼



- Work together with your team to create a flowchart and mind maps using Coggle. Some of the features are as follows.
- Add multiple starting points to the diagram
- Upload custom images
- Annotate text or image
- Numerous shapes and design elements
- Once you are happy with your diagram, you can download them as PDF or image files. And, also export as .mm or Visio files.
- [Demo](#)

# Mindmeister



Mindmeister for brainstorming, project planning, knowledge management, idea management, notes taking, and more.





- Add your branding color palette
- Add custom data
- Share with others
- UML diagram editor
- Graph structure grouping





- 
- <https://www.yworks.com/yed-live/>



- With thousands of templates, tools, and symbols, SmartDraw should definitely be in your radar of consideration. You can create enormous amounts of elements, like:
- Flowcharts
- Floor plans
- Network diagrams
- Graphs
- CAD drawings
- Wireframes
- And so much more



<https://www.youtube.com/watch?v=0FJf1NNmcyY&feature=youtu.be>



# Visual Paradigm

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- You can collaborate with your team members and build projects under one workplace.
- Either start from scratch or select from a variety of pre-made templates.
- You also get over 2,000 examples of diagrams, which can help when you're stuck and need ideas.



- Terrastruct lets you express the complexity of your software designs.
- You can layer your diagrams by the level of abstraction and define scenarios to capture how your system behaves under edge cases.
- There are integrations with your codebase, the ability to collaborate through comments right on the diagram.



Individual Free	Pro \$14.99/month	Enterprise Contact us
4 layers/diagram	Unlimited layers	Self hosting license
2 scenarios/layer	Unlimited scenarios	24 hour human support
3 frames/scenario	Unlimited frames	Custom billing/invoicing
Embeddable iFrames	Commenting	Single sign-on (SSO) integration
	Granular permissioning	End-to-end encryption
	Export to PDF/PPT	
	Sync with Google Drive	



- Demo

The background of the slide is a blurred photograph of a laptop. The laptop is open, and the keyboard is visible in the lower right portion of the frame. The screen is visible in the upper right, showing a dark blue or black color. The overall image is out of focus, creating a soft, bokeh effect.

EDraw

# Questions



# Module Summary

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– UML

