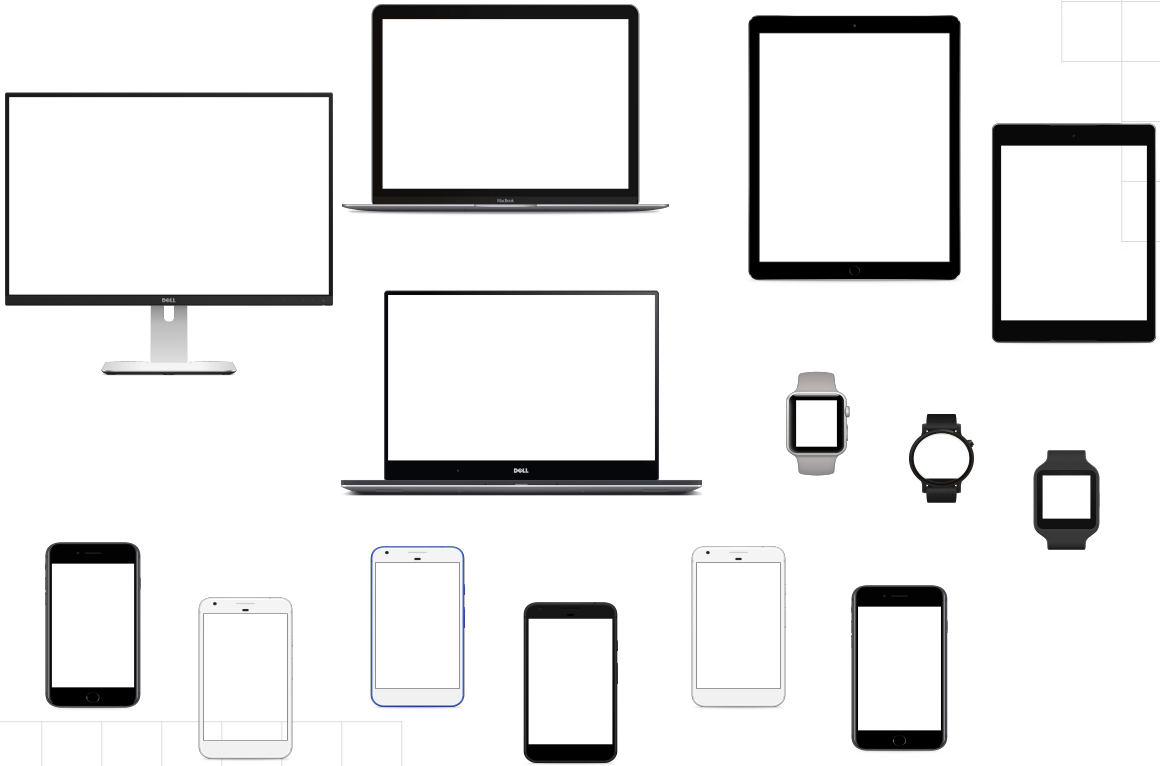
Developer Student Clubs

Solution Design 3: Technical Architecture

Google Developers



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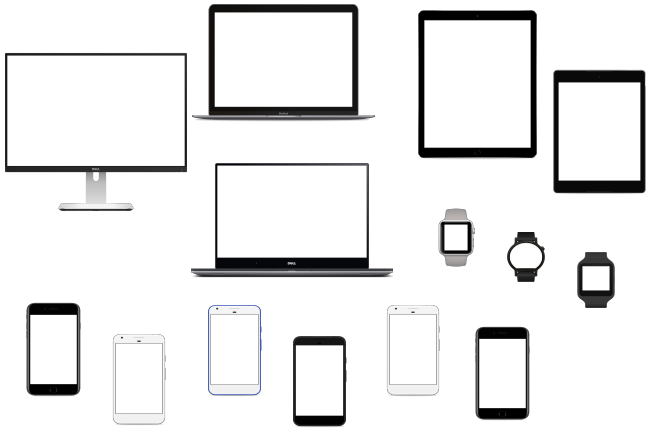
Front-end (client)

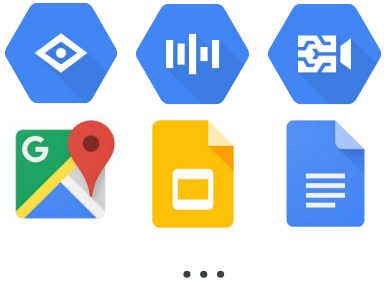


Back-end (server)

Running Code

Data Storage

Other Services



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example:

photo-sharing app

Front-end (client)

Back-end (server)

Running Code

Data Storage

Other Services

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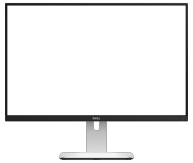
example:

photo-sharing app

Front-end (client)



Web

Back-end (server)

Running Code

Cloud Functions

Data Storage

Firebase Firestore

Firebase Storage

Other Services

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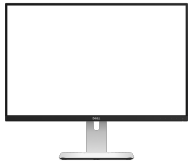
example:

photo-sharing app

Front-end (client)



Web

Back-end (server)

Running Code

Cloud Functions

Data Storage

Firebase Firestore

Firebase Storage

Other Services

Cloud Vision API

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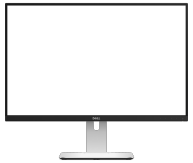
example:

photo-sharing app

Front-end (client)



Web

Back-end (server)

Running Code

App Engine Standard

w/

Django (Python)
Express.js (Node.js)
Ruby on Rails (Ruby)
Spring (Java)
...

Data Storage

Firebase Firestore

Firebase Storage

Other Services

Cloud Vision API

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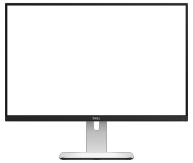
example:

photo-sharing app

Front-end (client)



Web

Back-end (server)

Running Code

App Engine
Flexible

w/

Django (Python)
Express.js (Node.js)
Ruby on Rails (Ruby)
Spring (Java)
...

Data Storage

Firebase
Firestore

Firebase
Storage

Other Services

Cloud Vision
API

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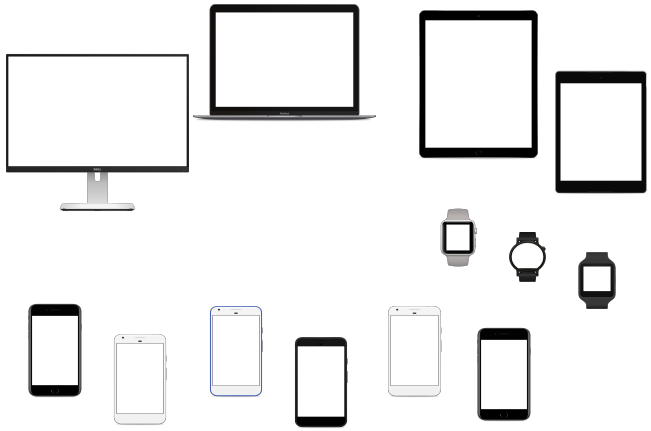
example:

photo-sharing app

Front-end (client)



Back-end (server)

Running Code

App Engine
Flexible

w/

Django (Python)
Express.js (Node.js)
Ruby on Rails (Ruby)
Spring (Java)
...

Data Storage

Firebase
Firestore

Firebase
Storage

Other Services

Cloud Vision
API

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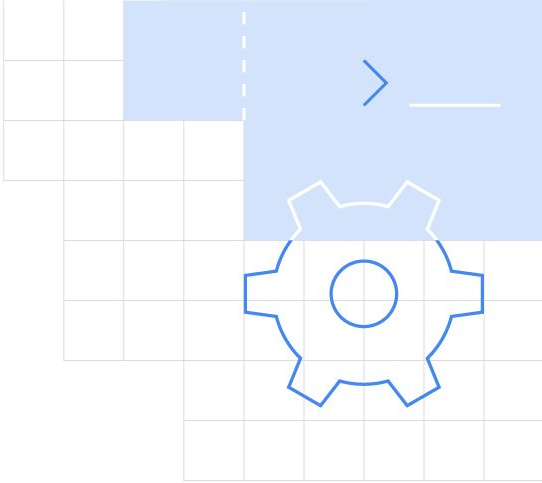

How can we do this?

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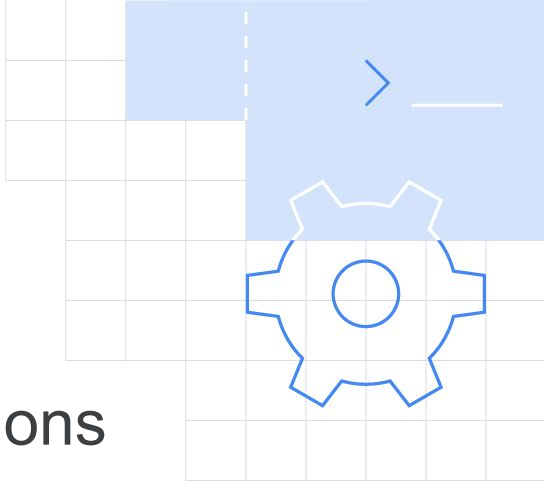

How can we do this?

1) Considerations
2) Research
3) Design

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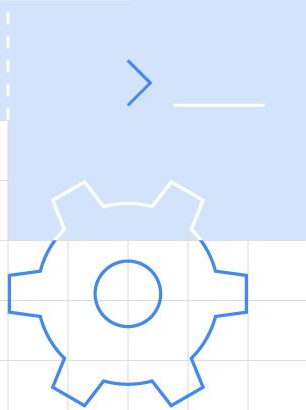
step 1:
considerations



What does my application require?

How many people are on my team?

How experienced are we?

What languages / tech are we comfortable with?

What is our budget?

What is our timeline?

How accelerated is our timeline?

How much load does this service have to provide?

What security considerations must we make?

What compliance considerations must we make?

What technologies do we have to integrate with?

…

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bit.ly/**google-cloud-4-words**

step 2: **research**

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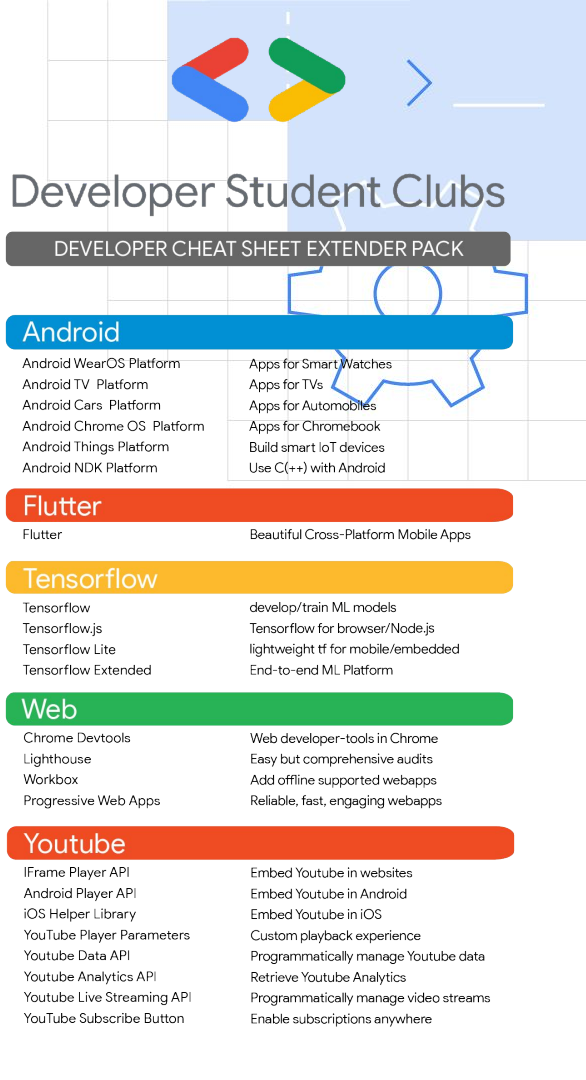
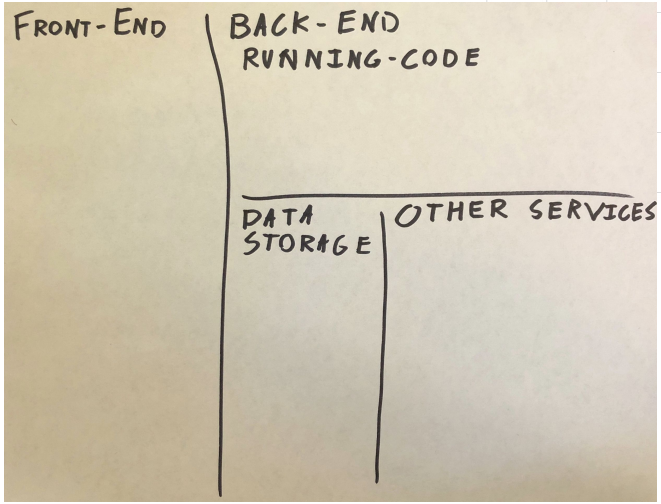


step 3: **tech design**



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workshop:

e-commerce ,
food-delivery,
productivity app,
(insert your idea here)

Front-end (client)

Back-end (server)

Running Code

Data Storage

Other Services

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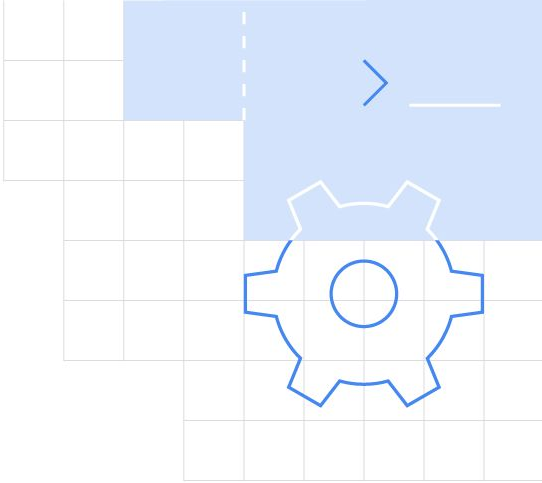

Go!

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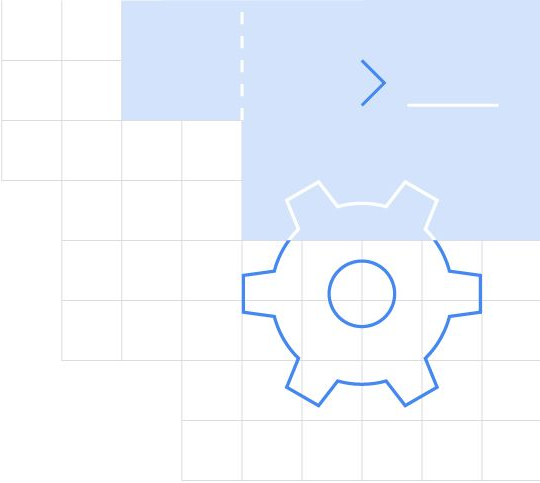

Q&A

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