

Stop Building APIs

Options for automating
end-to-end communication.

Masking Technology

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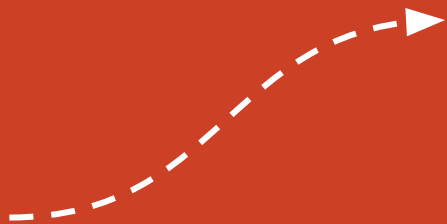
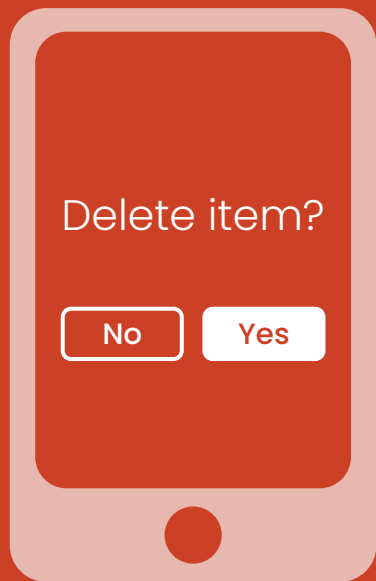
[linkedin.com/company/maskingtechnology](https://www.linkedin.com/company/maskingtechnology)



Session breakdown



- 1
- 2
- 3
- 4





Frontend

Backend





Developer

Building and maintaining APIs takes a lot of time.

APIs for internal communication do not add any business value.



Architect

1

2

3

4



Developer

Building and
maintaining APIs
takes a lot of time.

APIs for internal
communication
do not add any
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Architect

- 1
- 2
- 3
- 4



1

2

3

4

**tRPC****Remult****Tempo**

1

2

3

4

tRPC → Typesafe API

```
// Server code
const appRouter = router({
  deleteItem: publicProcedure
    .input(z.object({ id: z.string() }))
    .query(async ({ input }) => { const id = input.id; /* ... */ })
});

// Client code
const trpc = createTRPCProxyClient<AppRouter>({
  links: [ httpBatchLink({ url: 'http://localhost:3000' }) ]
});

await trpc.deleteItem.query('1');
```

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Remult → CRUD Framework

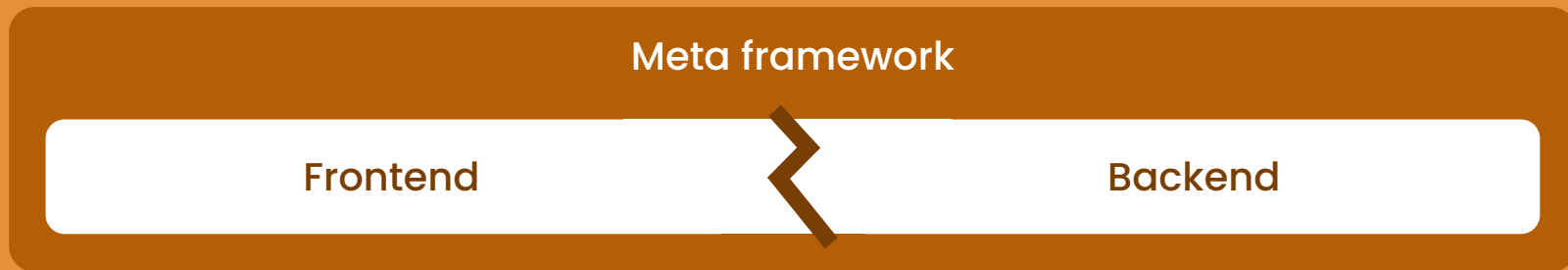
```
// Server code
@Entity('items', { allowApiCrud: true })
class Item { @Fields.uuid() id!: string; /* other fields */ }

app.use(remultExpress({
  entities: [Item]
}));

// Client code
const itemsRepo = remult.repo(Item);

const item = await itemsRepo.findId('1');
await itemsRepo.delete(item);
```

- 1
- 2
- 3
- 4



1

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SOLID START

NEXT.js

Remix



NuxtJS



SVELTEKIT

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Next.js → Server Actions

```
async function deleteItem(id: string) {
  'use server';
  /* ... */
}

export default function DeleteItemDialog({id}: {id: string}) {
  return (
    <!-- ... -->
    <button onClick={() => startTransition(() => deleteItem(id))}>
      Yes
    </button>
  );
}
```

1

2

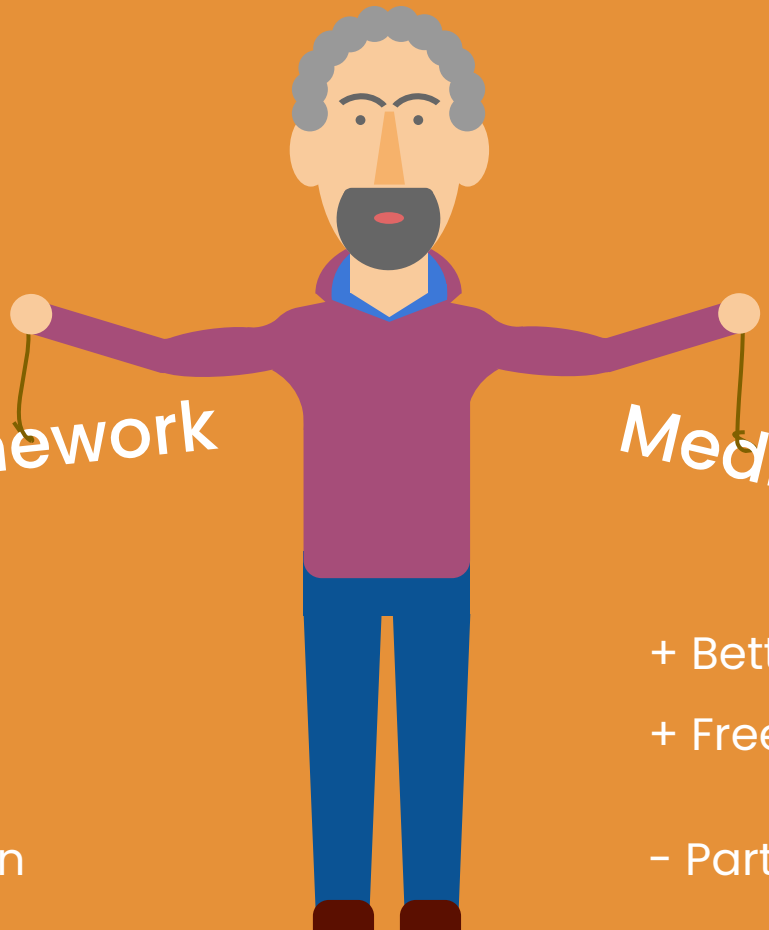
3

4

SolidStart → Server Functions

```
const deleteItem = server$(async (id: string) => {
  /* ... */
});

export default function DeleteItemDialog({id}: {id: string}) {
  return (
    <!-- ... -->
    <button onClick={ () => deleteItem(id)}>
      Yes
    </button>
  );
}
```



Framework

- + Fully automated
- + Out-of-the-box
- Extra vendor lock-in

Mediator

- + Better portability
- + Freedom of choice
- Partly automated

1

2

3

4

tRPC

```
const appRouter = router({
  deleteItem: publicProcedure
    .input( /* ... */ )
    .query( /* ... */ )
});
```

!==

Next.js

```
async function deleteItem(id: string)
{
  'use server';
  /* ... */
}
```

Migrating to another solution requires code changes.



Developer

I don't have to build APIs and have end-to-end type safety!

Change is the only constant. I hope we made the right choices.



Architect



If the problem is in the code, why not take it out?

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If it can't be in the code,
then where to put it?



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DeleteItemDialog.ts

```
import delete from './deleteItem'; automation  
  
function DeleteItemDialog(/* ... */) {  
  /* onClick => delete(...) */  
}
```

deleteItem.ts

```
async function deleteItem(id: string) {  
  // Delete item from database  
}  
  
export default deleteItem;
```

JavaScript Modules to the rescue.



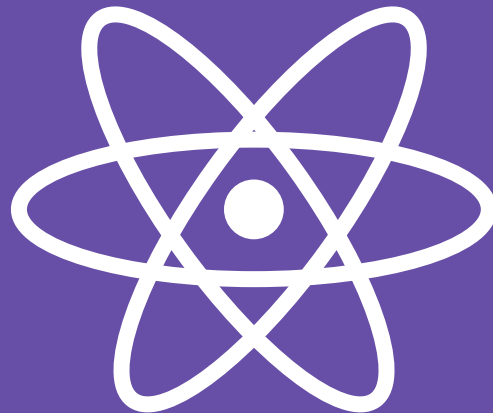
What runs where can be configured.



Environments can have different deployment models.



Jitar



React



Demo

```
> npm create jitar@latest
```

Website



<https://jitar.dev>



Github



[https://github.com/
MaskingTechnology/
jitar](https://github.com/MaskingTechnology/jitar)