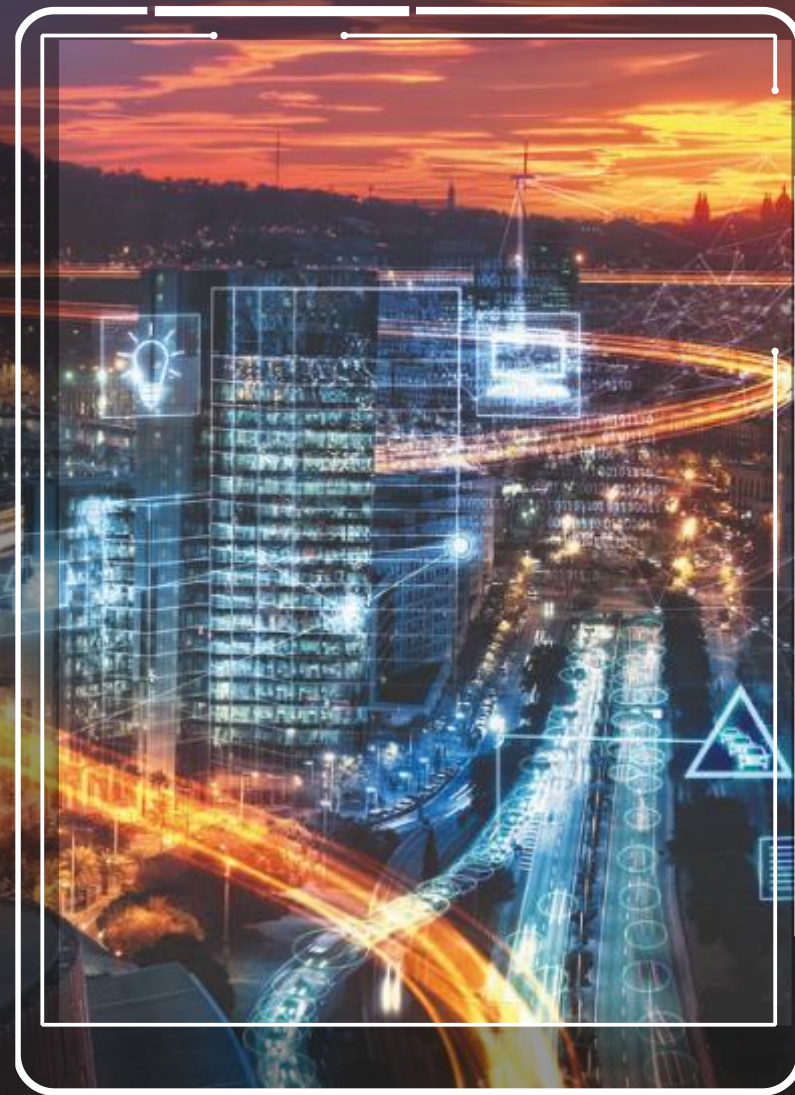


LEGACY / DIGITAL TRANSFORMATION

WHAT IS REALISTIC?



Transformation Challenges

1. Legacy and disparate systems
2. Skills Shortages
3. Efficiency of execution
4. Differentiation
5. New business models

We need to offer new products and enter new channels

We need digital experiences for our customers & employees

We need to take ideas and initiatives to market faster



Through 2021, market demand for apps will grow at least **5x faster** than IT's capacity to deliver it.

- Gartner

And yet there is still a big gap

Augment with Outsourcing

Hire more Developers

CI/CD Pipeline

PaaS / Cloud

Agile Dev

I'm not able to respond fast enough to business app requirements

Our business needs me to stay in control

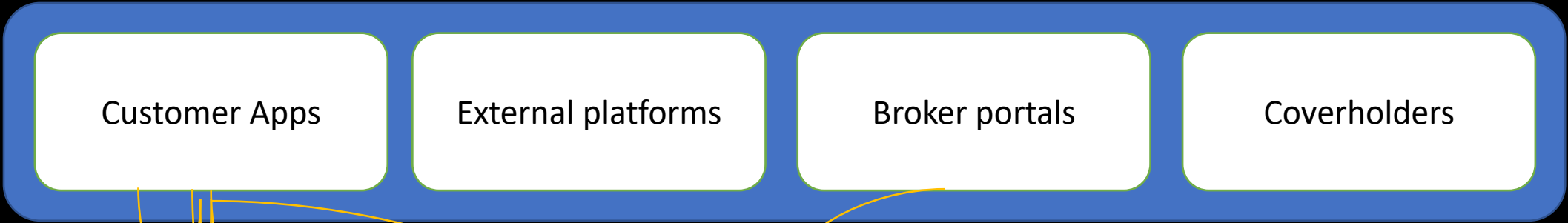
It is hard to rapidly spin up new apps on top of core systems



Business Demand

IT Supply

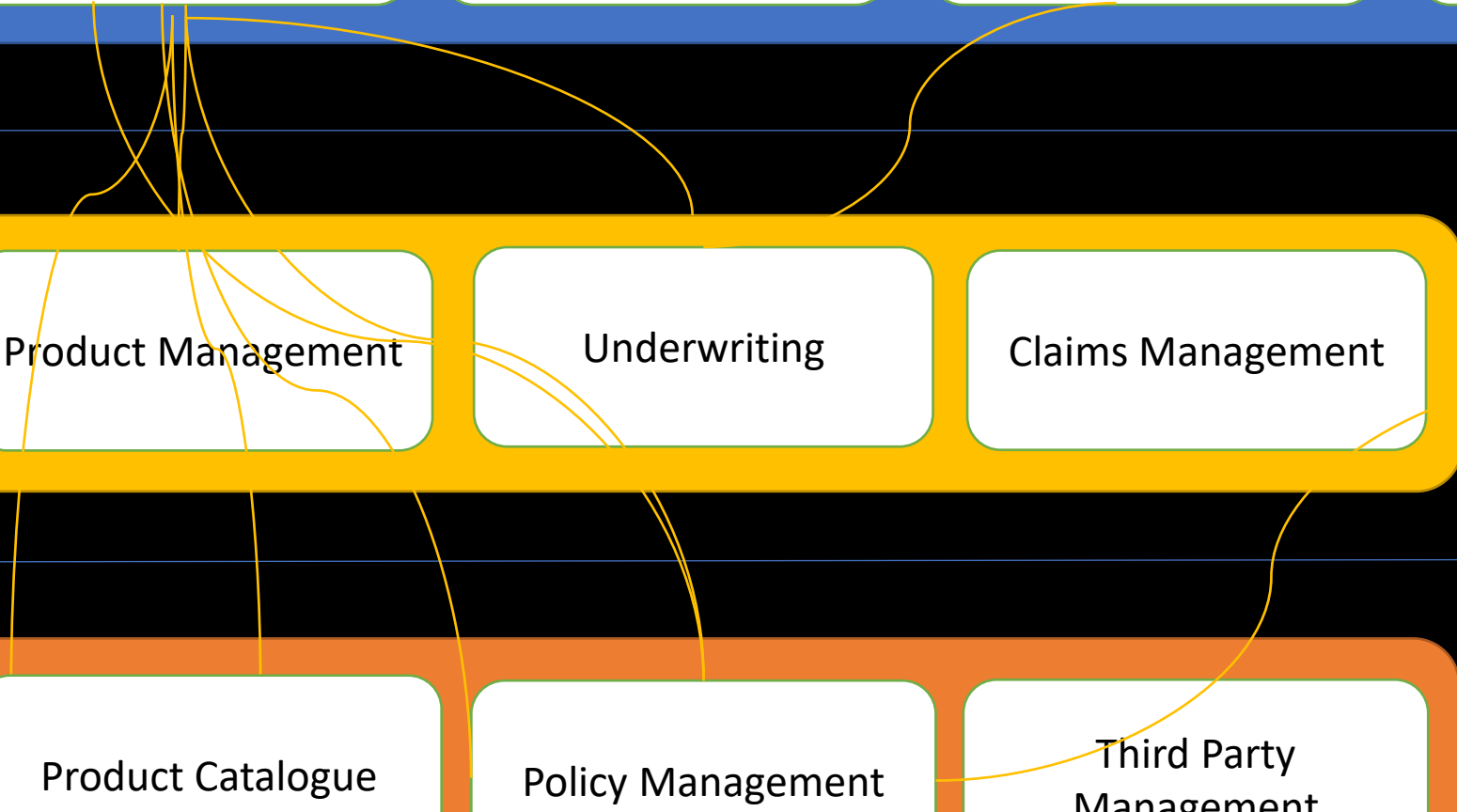
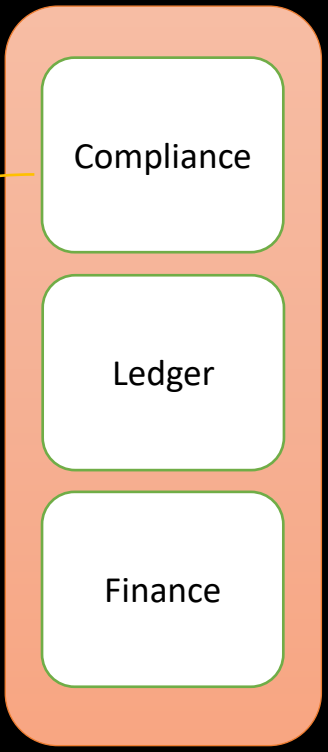
Systems of Engagement



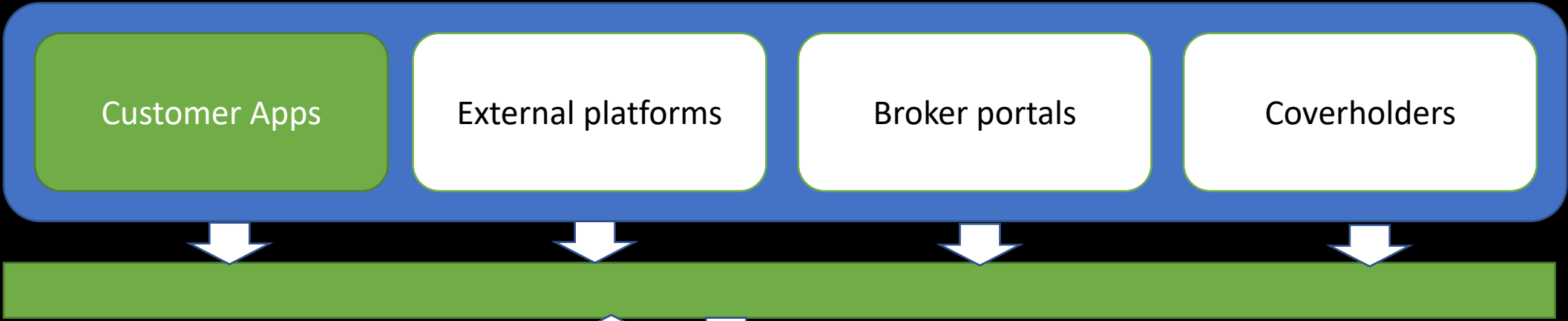
Systems of Differentiation



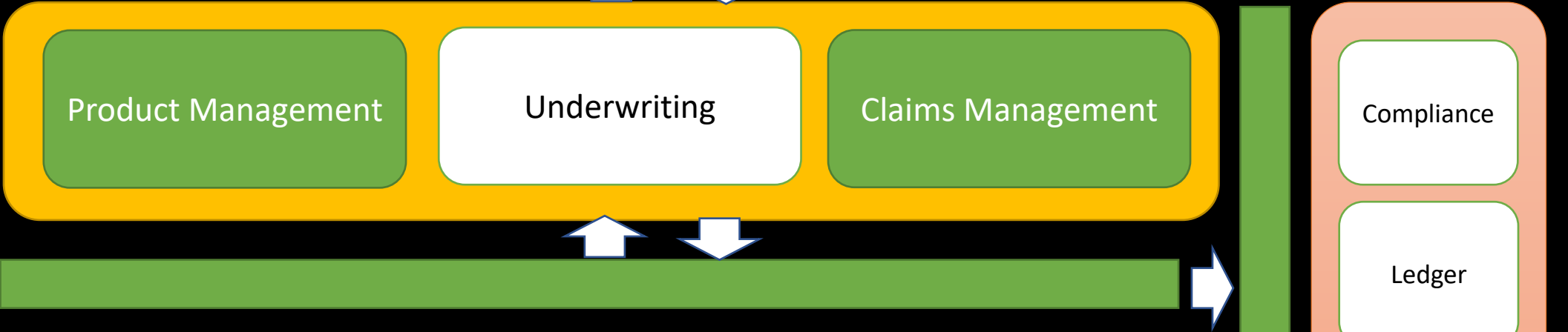
Systems of Record



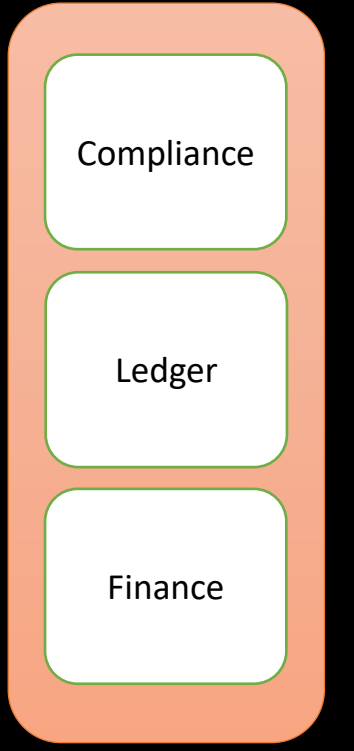
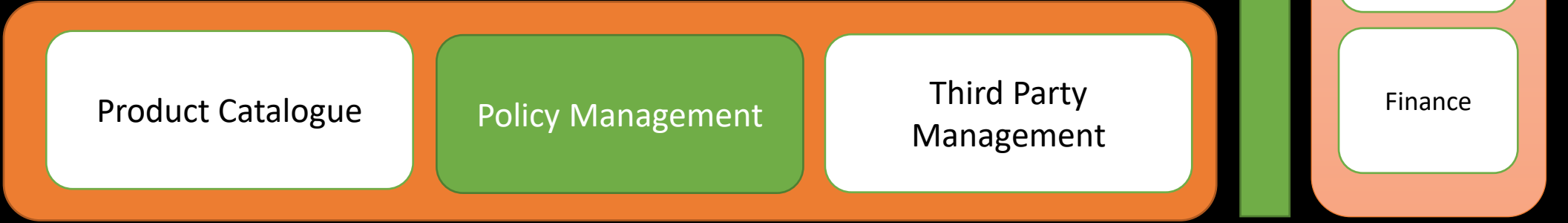
Systems of Engagement



Systems of Differentiation

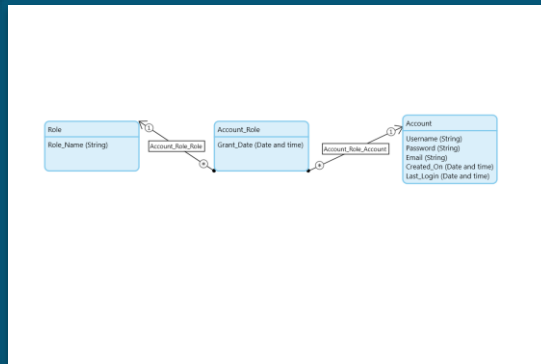


Systems of Record



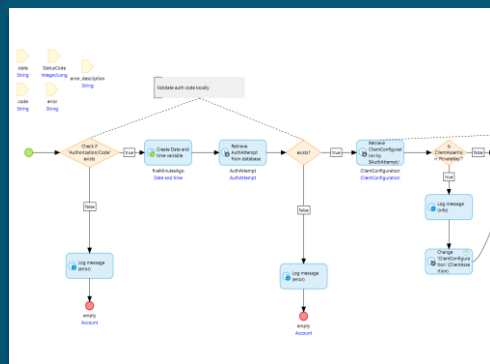
Low-Code Development

Data Models

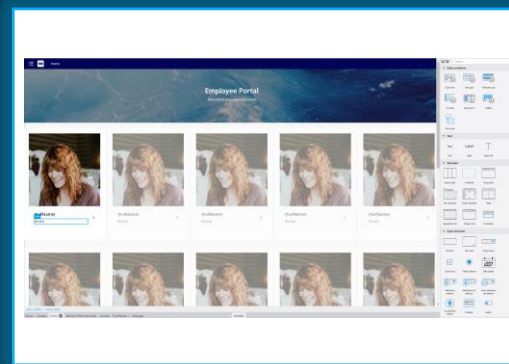


Low-code:

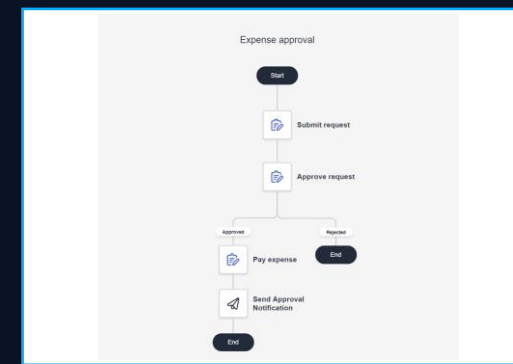
Business Logic



UI/UX



Workflow



High-Code:

```

1 CREATE TABLE roles(
2   role_id serial PRIMARY KEY,
3   role_name VARCHAR (255) UNIQUE NOT NULL
4 );
5 CREATE TABLE accounts (
6   user_id serial PRIMARY KEY,
7   username VARCHAR ( 50 ) UNIQUE NOT NULL,
8   password VARCHAR ( 50 ) NOT NULL,
9   email VARCHAR ( 255 ) UNIQUE NOT NULL,
10  created_on TIMESTAMP NOT NULL,
11  last_login TIMESTAMP
12 );
13 CREATE TABLE account_roles (
14  user_id INT NOT NULL,
15  role_id INT NOT NULL,
16  grant_date TIMESTAMP,
17  PRIMARY KEY (user_id, role_id),
18  FOREIGN KEY (role_id)
19   REFERENCES roles (role_id),
20  FOREIGN KEY (user_id)
21   REFERENCES accounts (user_id)
22 );

```

```

2 function hw(name)
3 {
4   var strText;
5   if(name == "Jeff")
6   {
7     strText = "Hello " + name;
8   }
9   else
10  {
11    return "I don't know anyone named " + name;
12  }
13 }
14
15 hw("Jack");

```

```

1 // ...
2 // ...
3 // ...
4 // ...
5 // ...
6 // ...
7 // ...
8 // ...
9 // ...
10 // ...
11 // ...
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18 // ...
19 // ...
20 // ...
21 // ...
22 // ...

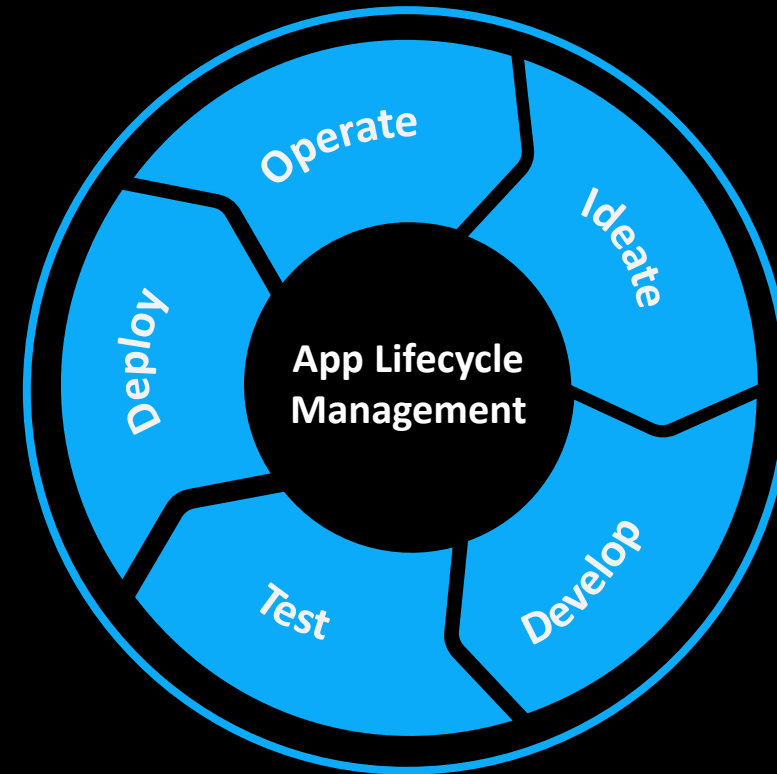
```

```

1 // ...
2 // ...
3 // ...
4 // ...
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11 // ...
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13 // ...
14 // ...
15 // ...
16 // ...
17 // ...
18 // ...
19 // ...
20 // ...
21 // ...
22 // ...

```

Low-Code Platforms



Radical **abstraction** and **automation** have made software development faster, higher quality, and accessible to a larger audience of developers.

The low-code approach is now being applied to things like **data integration**, **intelligent automation**, and **AI**.

Discussion:

What legacy challenges is your firm and/or the market facing and what obstacles are preventing these from being tackled?