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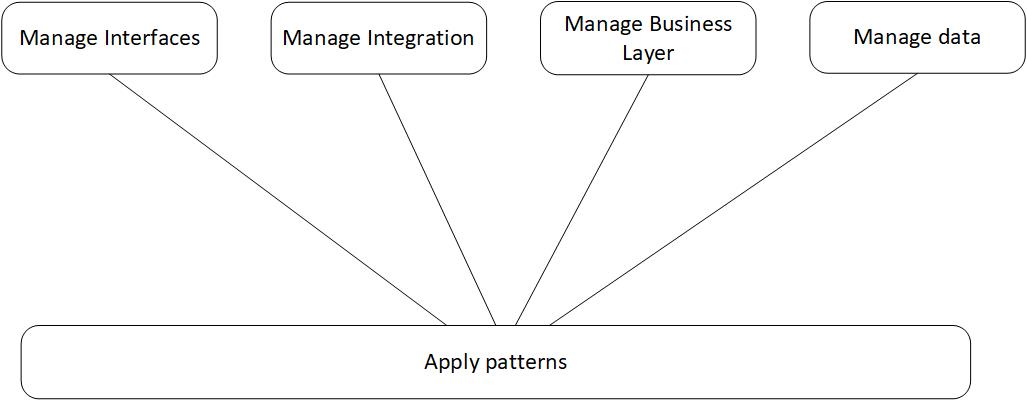
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# ACME Soft PTY LTD Architecture document

## Development principles (Generic to be completed for ACME PTY LTD)



### Manage Interfaces

#### Cloud

#### IoT

#### Mobile

#### Web

### Manage Integration

#### API management solution (gateway)

#### Integration pattern

### Manage business layer

#### Workflow

#### Components

#### Entities

### Manage data

#### Data sources

#### Data services

### Apply Patterns

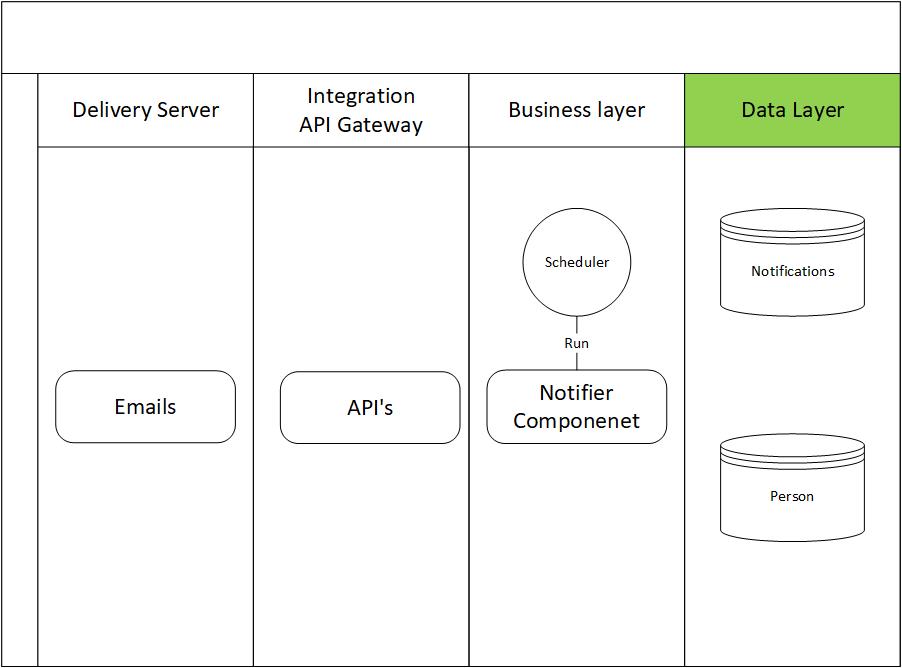
#### Data movement

#### Enterprise solution

#### Integration

#### Security

## Architecture landscape



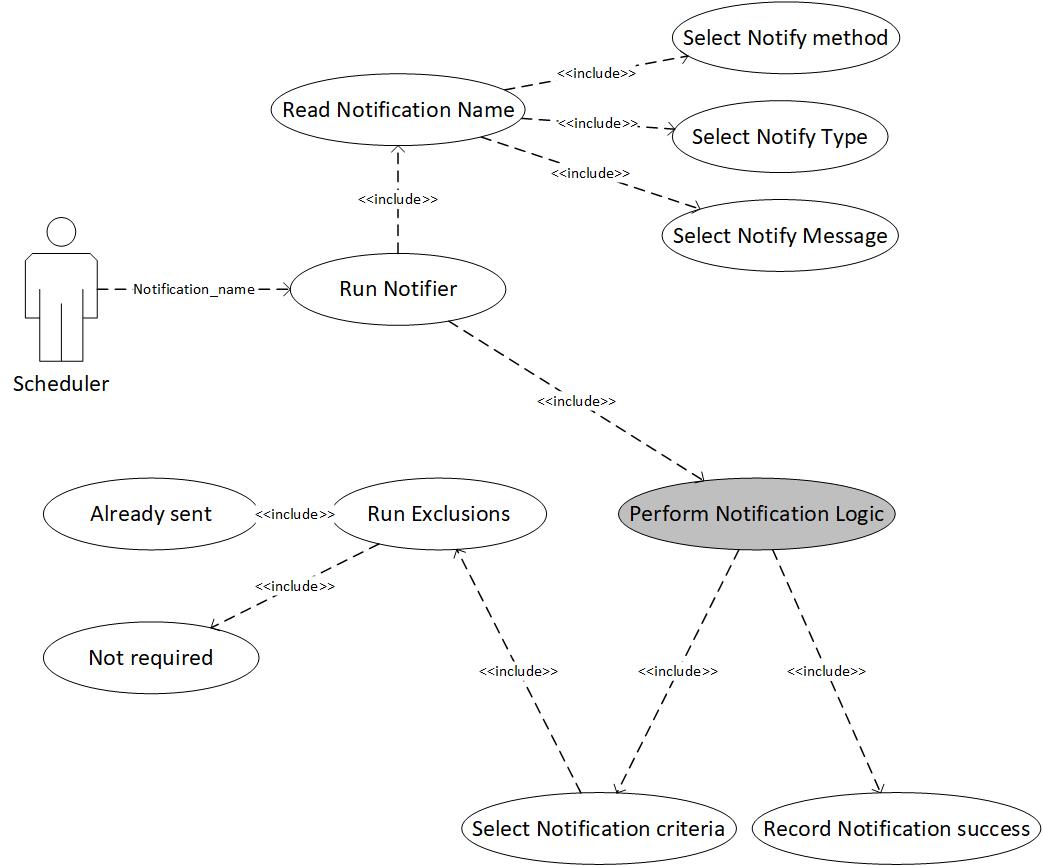
### Layered Architecture Illustrated

### The Notify component and scheduler to be built within business service layer

### The “Employees” and “BirthdayWishExclusions” API’s will be accesses via the API gateway using oAuth authentication.

#### Client Credentials Grant may be used, since there will not be direct user interaction

## Notifications Use Case



## Pseudocode for Notify program

### Based on Name parameter, determine; Method, type and message

### Perform logic based on type “BirthDayMessage”

### Compare current date with last run date

#### Execute last rundate +1 day, until Rundate=CurrentDate

### Select current employees

#### (Rundate >= EmploymentStartDate and employmentEndDate = null or

#### Rundate >= EmploymentStartDate and < employmentEndDate

##### Where rundate(month||day) = dateofbirth(month||day) and

##### Employee message not already sent for rundate?

###### Concatenate Name and lastname into message

Add “Belated” when rundate <current date

Send email to employee email address

Record employee number and timestamp of message sent

## Class diagrams

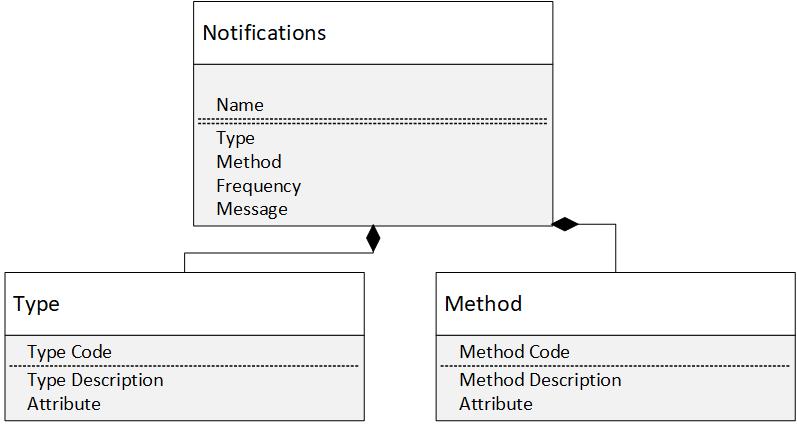
### Notifications

#### Name type, method, frequency and message (text)

#### Types will have a notification code and description.

#### Method will have a delivery code and description

#### Attributes can be linked to business rules



### Person

#### ID number, date of birth, name and personal contact details

#### Employee will inherit from person and contain employee related details

#### 

