

DYNAMODB

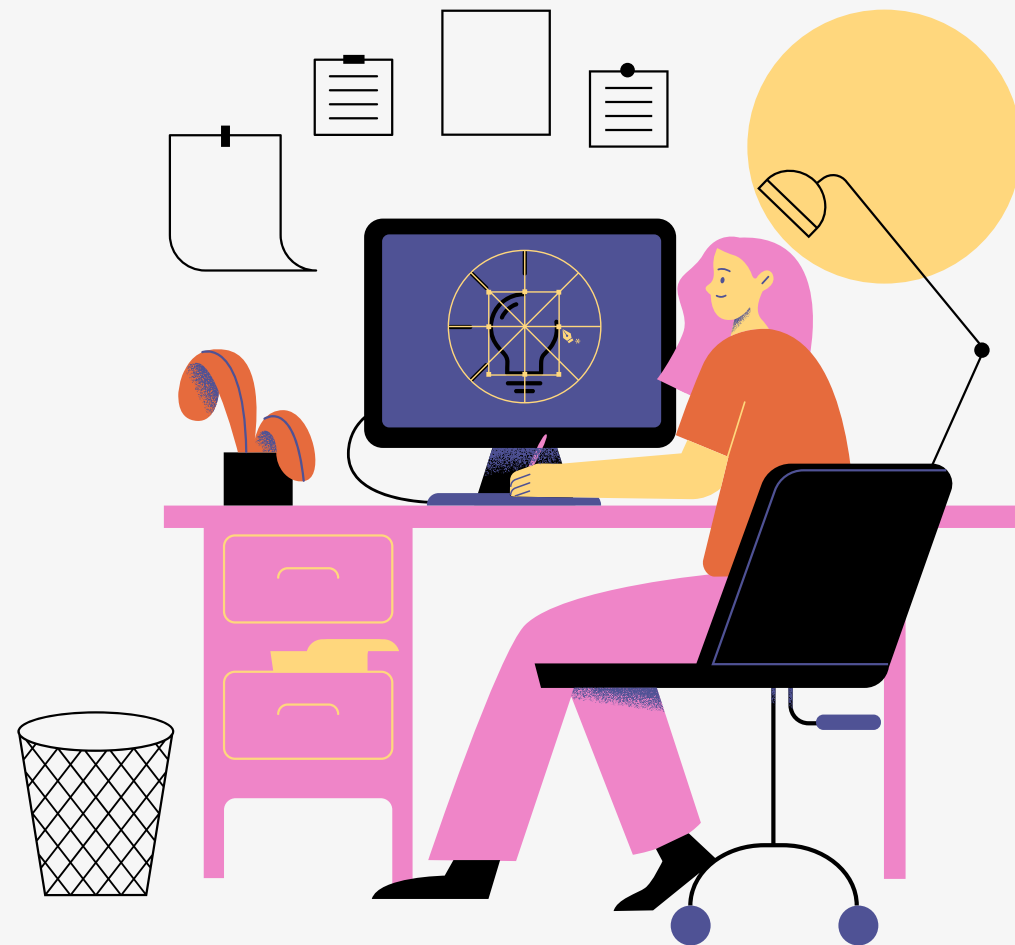
# App store Database

CSCI 112 Final Project



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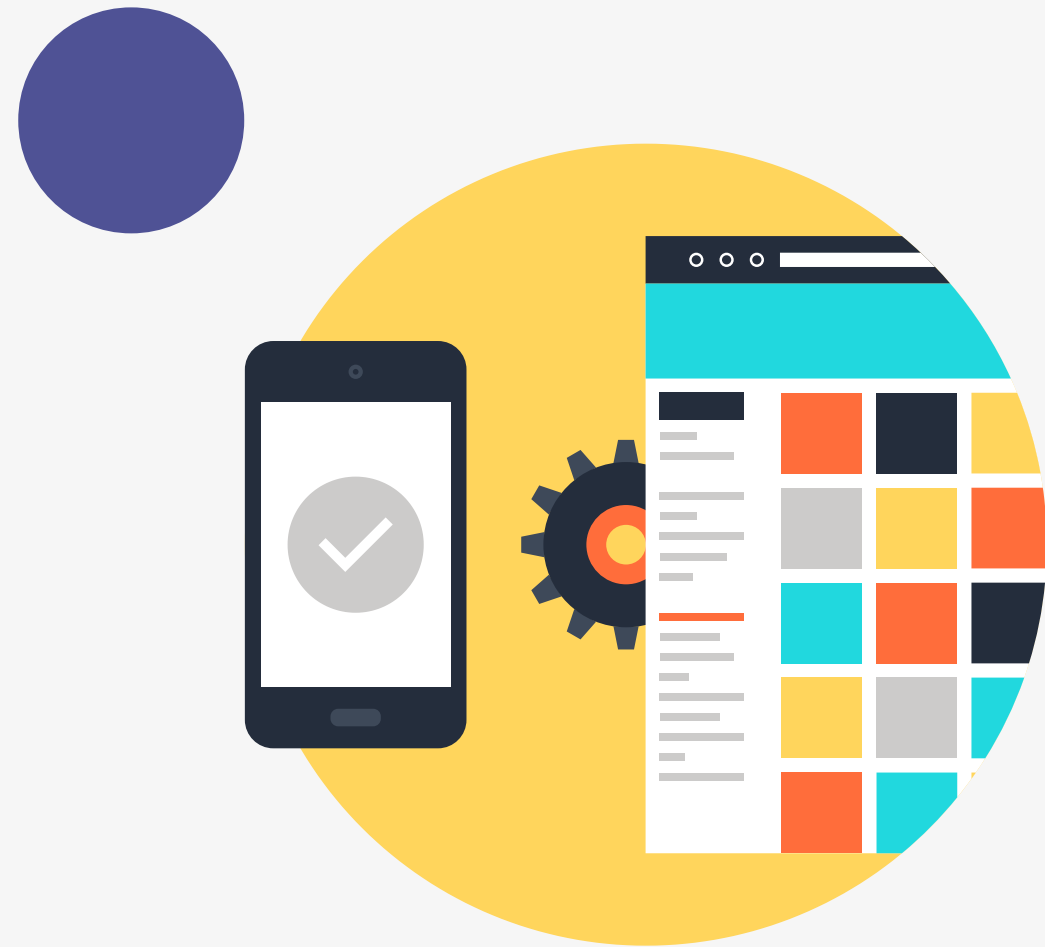
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# Database description

Short overview of our DynamoDB-hosted service



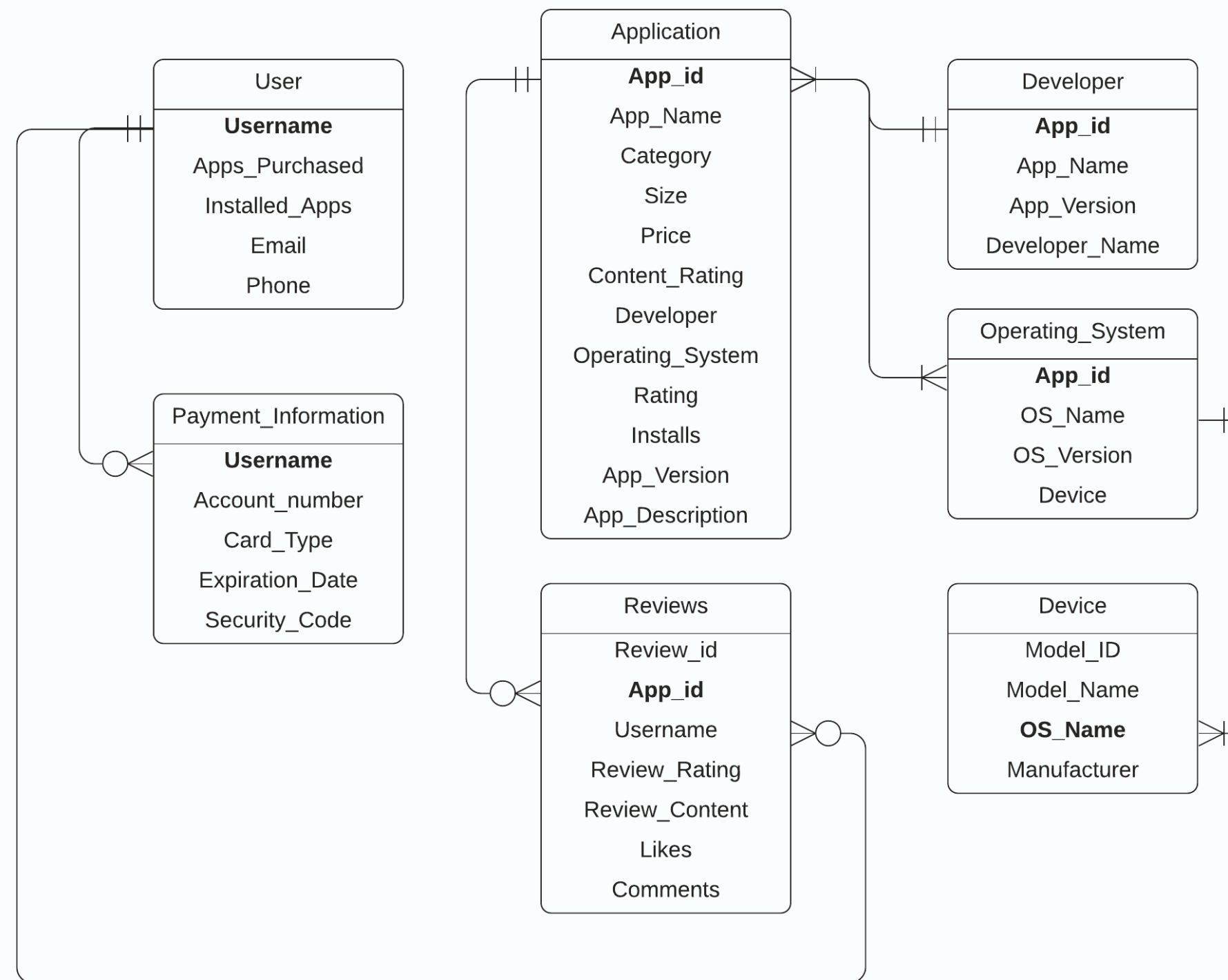
## What is an app store?

The App Store hosts many apps for mobile users, ranging from games, self-help, education, or other types of entertainment. The database contains many details about each app in the platform, including but not limited to categories, average rating, number of reviews, and size.

## What makes this app store special?

This database makes use of DynamoDB, a managed database that makes it possible to create indexes and choose which keys to use among the many attributes of the apps. This database is created for three possible clients: the end users, app developers, and the developers behind the app store.

# Entity Relationship Diagram



# Table Schema

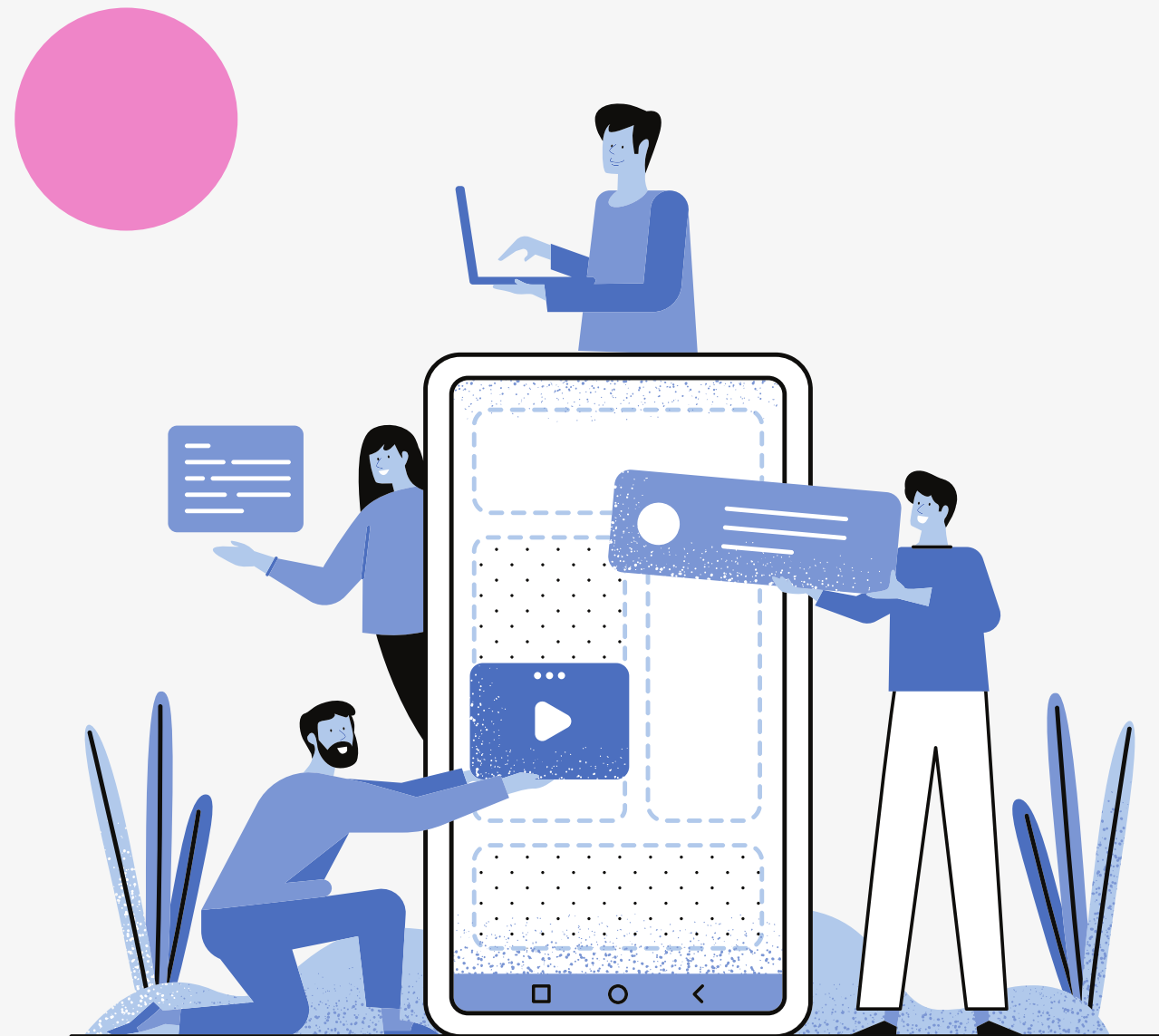
Primary Key												
PK	SK	Attributes										
	PROFILE	Apps_Purchased	Installed_Apps	Email	Phone							
		list	list	<Email>	<Phone>							
	#PAY#<Payment_Method>	Account_Number	Card_Type	Expiration_Date	Security_Code							
		<Account_Number>	<Card_Type>	<Expiration_Date>	<Security_Code>							
		Account_Number	Card_Type	Expiration_Date	Security_Code							
<Username>	#PAY#<Payment_Method>	<Account_Number>	<Card_Type>	<Expiration_Date>	<Security_Code>							
	<App_Name>	Category	Size	Price	Content_Rating	Developer	Operating_System	Rating	Installs	App_Version	App_Description	
		<Category>	<Size>	<Price>	<Content_Rating>	<Developer_Name>	<OS_Name>	<Rating>	<Installs>	<App_Version>	<App_Description>	
	#REVIEW#<Review_ID>	Username	Review_Rating	Review_Content	Likes	Comments						
		#REVIEW#<Review_ID>	<Username>	<Review_Rating>	<Review_Content>	<Likes>						list: <Comments>
			Username	Review_Rating	Review_Content	Likes						Comments
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		<Model_Name>	<Manufacturer>									
	#MODEL#<Model_ID>	Model_Name	Manufacturer									
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	#MODEL#<Model_ID>	Model_Name	Manufacturer									

Category_Index											
Primary Key											
Category	Rating	Attributes									
<Category>	<Rating>	PK	SK	Size	Price	Content_Rating	Developer	Operating_System	Installs	App_Version	App_Description
		#APP#<App_ID>	<App_Name>	<Size>	<Price>	<Content_Rating>	<Developer_Name>	<OS_Name>	<Installs>	<App_Version>	<App_Description>
		PK	SK	Size	Price	Content_Rating	Developer	Operating_System	Installs	App_Version	App_Description
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Developer_Index											
Primary Key											
Developer	Installs	Attributes									
<Developer_Name>	<Installs>	PK	SK	Size	Price	Content_Rating	Category	Operating_System	App_Description	App_Version	Rating
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		PK	SK	Size	Price	Content_Rating	Category	Operating_System	App_Description	App_Version	Rating
	<Installs>	#APP#<App_ID>	<App_Name>	<Size>	<Price>	<Content_Rating>	<Category>	<OS_Name>	<App_Description>	<App_Version>	<Rating>
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Visit: [AppstoreTableSchema](#)

# Access Patterns



01

App store developers want to determine the top 10 apps per category.



02

App store developers want to know the most popular card type used by users



08

An app developer wants to research more about the most installed apps



09

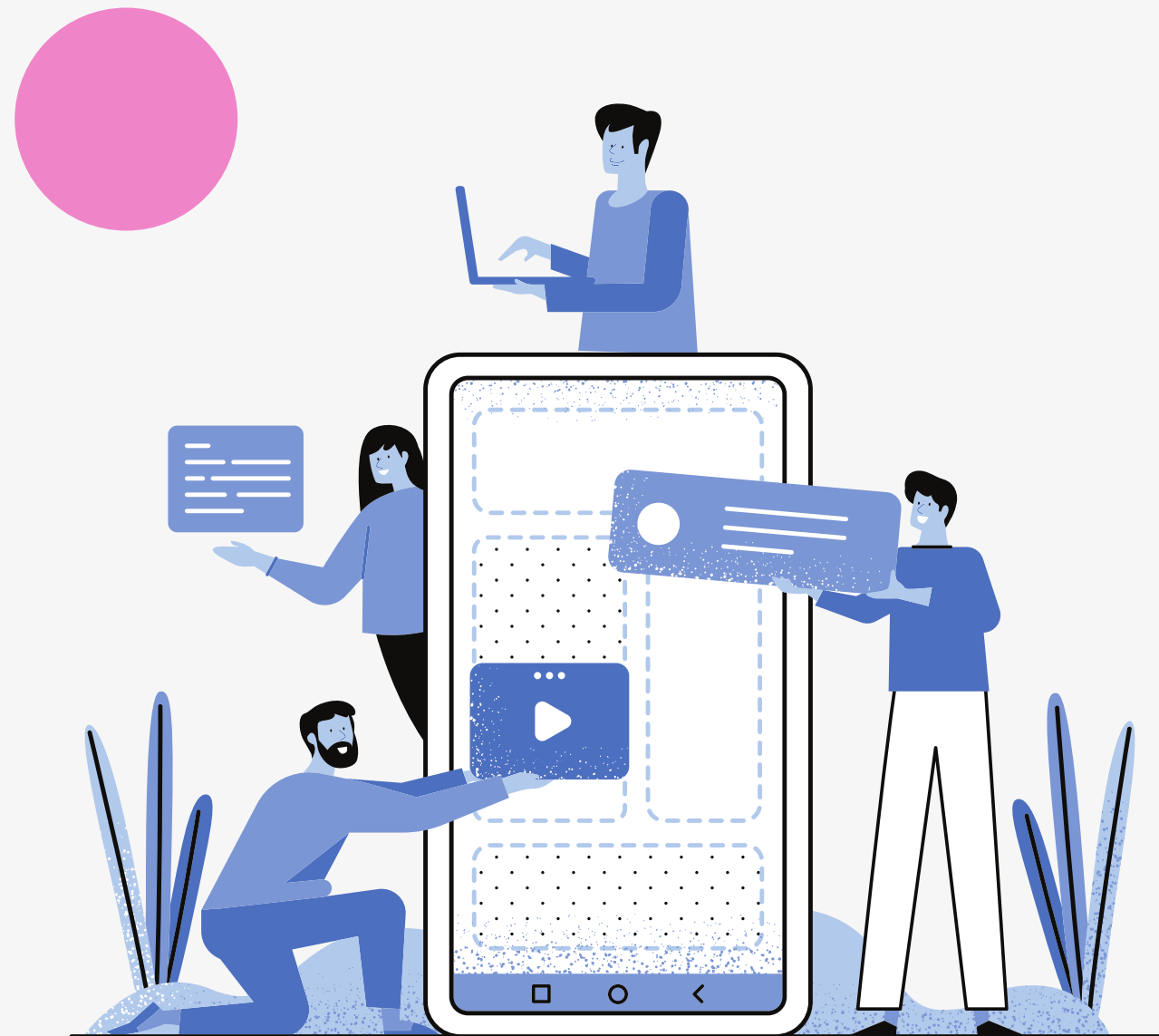
An app developer wants to update their app's description



10

A phone manufacturer wants to know how many apps and devices are compatible with their OS

# Access Patterns



03

A user wants to know what apps are less than a specific size in a certain category



04

A user wants to leave reviews for an app



05

A user wants to add installed or purchased apps



06

A user wants to comment on a review



07

A user wants to add a new payment method to their account

# References and Materials

Table Schema

Source Code

Database Specifications

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