tudent & Parent Accounts (~1/2 hour)

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We originally designed our account and subscription system (described below)

under the assumption that the same person purchases and uses an account (which

is almost always true for grad school exams). However, we recently found that

our high school students usually have parents pay for their account and often

the parent is purchasing multiple accounts. This is creating issues with

features such as study reminders and receipt emails where our messages are being

sent to the wrong person and profiles are a jumble of parent and student info.

How would you alter this design to handle separate student and parent accounts?

Ans : I would add a owner join table which will have foreign key to both user and UserProfile as follows:

\*\*Exam\*\* - A product/site for an exam's worth of study content

```

has\_many :subscription\_plans

has\_many :user\_profiles

```

\*\*User\*\* - A single student's account (email, password, etc.)

```

has\_many :user\_profiles through :owner

```

\*\*Owner\*\* - A Parent who can have multiple accounts

```

belongs\_to :user\_profiles

belongs\_to :user

```

\*\*UserProfile\*\* - A student's exam-specific settings (target scores, test date,

disability accomodations, etc.)

```

has\_many :user through :owner

belongs\_to :exam

has\_many :subscriptions

```

\*\*SubscriptionPlan\*\* - A paid or free plan with configured access to a certain

amount of content from a single exam

```

belongs\_to :exam

has\_many :subscriptions

```

\*\*Subscription\*\* - Records trial sign-up, purchase, upgrade, or extension of a

user's access to a particular plan with activation and expiration dates. A

welcome and/or receipt email is sent to the user after activation. Each

profile has at most one active subscription.

```

belongs\_to :subscription\_plan

belongs\_to :user\_profile

has\_many :subscription\_transactions

```

\*\*SubscriptionTransaction\*\* - Record of each payment request for a subscription.

If the payment is successful, then the subscription is activated. Otherwise,

an error description is shown to the user and an email is scheduled to ask the

user if they need help processing their payment.

```

belongs\_to :subscription

```