Condensation: A Game Distribution Database

Our project will be on the idea that people would like to purchase games through the internet rather than buy a hard copy. To accommodate this, the company responsible for providing the game copy will need to have a database of many of the business rules and entities. Because there are many games and many businesses selling their many games, having a database to keep track of the games, users, transactions, publishers, and meta data is essential.

When a User buys a game, that game gets added to their game portfolio. The Users payment information is sent to Condensation and Condensation logs that transaction and sends that payment to the Game’s Publisher. That Publisher confirms or rejects payment and the user is notified. Then, the user is allowed to download and play the game. Finally, the Publisher deals a proportion of that payment to Condensation. Because the Publisher sets the price, the entire process is open, trackable and debug-able.

Primary Entities:

1. Company (Publisher or Developer or Condensation) (company name, account number)
2. Game (game id, title, publisher, developer)
3. User (user\_name, name, email)
4. Portfolio (1 per game, play time and game rating (+ or -)
5. Transaction (transaction number, game id, purchase date, purchase amount (because of sales))
6. Achievements (in game accomplishments) (many per game, achievement name, description, validation number)
7. On Sale Games (game id, start date, end date, new sale price)
8. Featured Games (game id, start date, end date)

Business Rules:

1. Users can only access games that they payed for
2. Ever user needs to have an payment account, meaning no games are free (may change later)
3. Games must have companies that made them
4. Companies must provide a validation number to confirm that achievements are legitimate
5. Games cannot be free
6. Games must have a minimum and recommended settings
7. Games must provide their supported languages and ESRB ratings
8. Languages are not supported by different installers, but by options in the installer

Sample Reporting:

1. Which games were published by which publishers
2. Which games do I own
3. Which games are on sale
4. Which games are in this genre
5. What game was purchased with this transaction number
6. What games do I own that are in this genre
7. Which games come in English
8. Which games are rated T for Teenagers