ASSIGNEMENT 1: SERVICE DESCRIPTION

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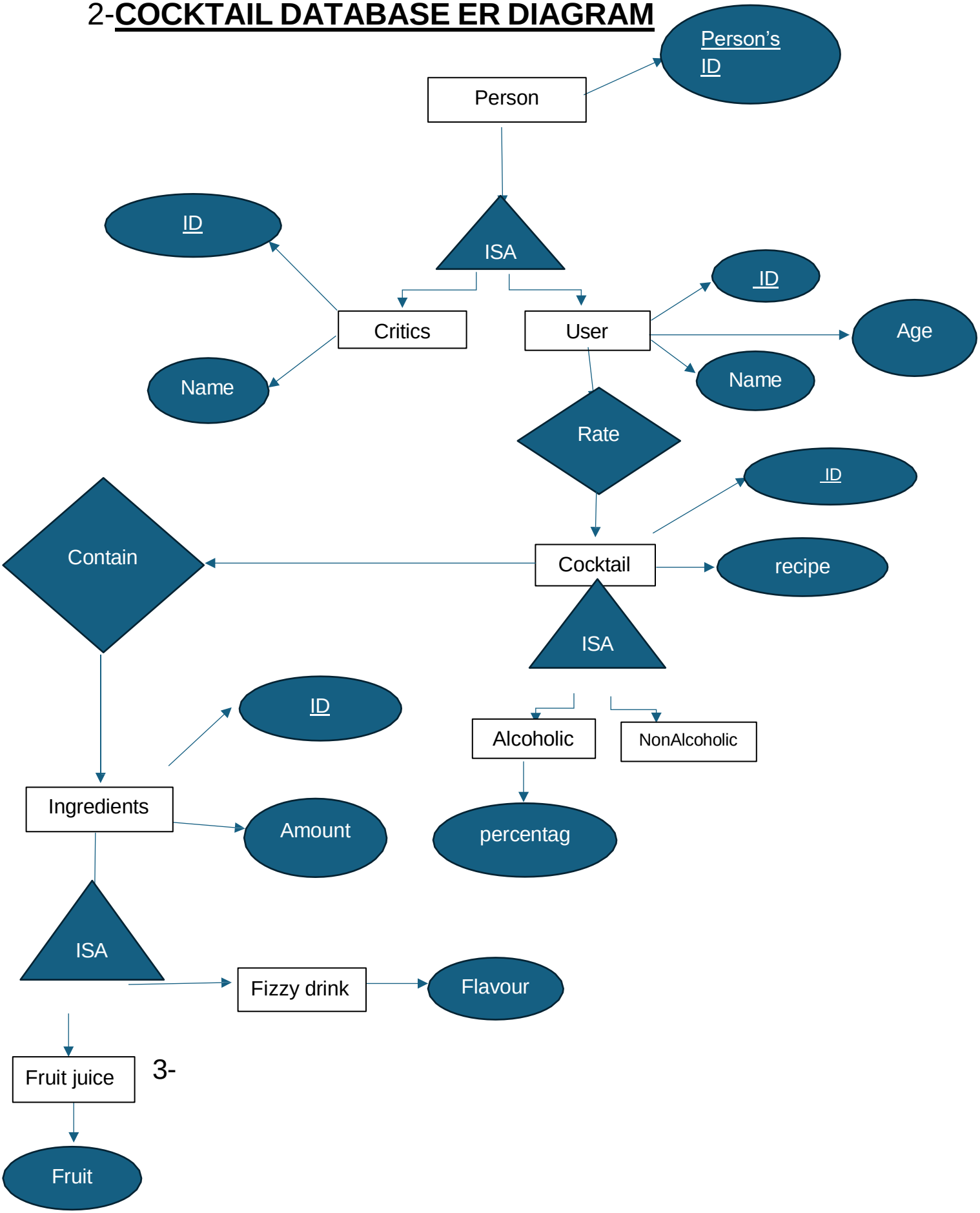
Our cocktail database web application aims to be the ultimate digital companion for both cocktail enthusiasts and professional bartenders. Upon accessing the site, users are greeted with a sleek, intuitive interface showcasing featured cocktails of the day and popular recipe categories.

Users can easily search for cocktails by name, ingredient, or flavor profile. Each cocktail page displays a high-quality image, list of ingredients with measurements, step-by-step preparation instructions, and suggested glassware. A unique feature allows users to adjust serving sizes, automatically recalculating ingredient quantities.

The application is responsive, working seamlessly across desktop and mobile devices, ensuring users can access recipes whether they're behind a home bar or a professional establishment. With regular updates featuring seasonal specials and user-submitted concoctions, the cocktail database remains a dynamic, ever-evolving resource for drink enthusiasts of all levels.

2-COCKTAIL DATABASE ER DIAGRAM



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Homepage

The user can see cocktails, a search bar, and possibly a "Cocktail of the Day" (we don’t know yet). Users can browse featured recipes, search for specific cocktails, or filter by criteria like ingredients, alcoholic/nonalcoholic, or flavor then Users are redirected to search result pages or detailed recipe pages based on their input.

Search & Filter bar:

The User can see search bar with options for advanced filtering (ingredients, alcohol content, origin, flavor profile). The user can search by cocktail name or apply filters. Displays matching cocktails with clickable details. No matches show a "no results found" message.

User Account Management:

The user sees Options to register or log in account. The user can create an account, log in, log out, save recipes, or manage profile. Saved recipes and collections are linked to the profile. The illegal input might be Invalid details (wrong formatted mail address) trigger error messages.

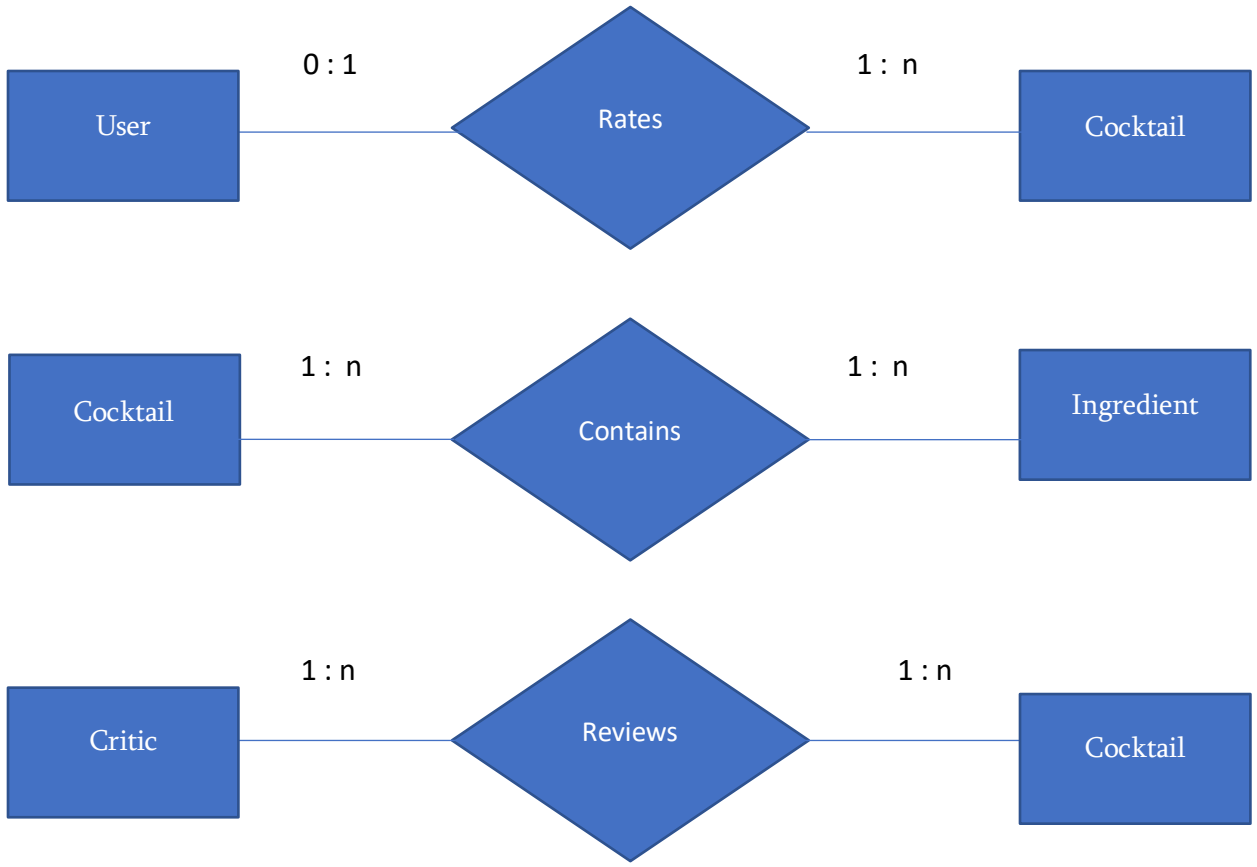
Recipe Viewing & Interaction:

Users can like or favorite the recipe, they can also evaluate them from the scale of 5 stars and additionally, critiques can leave comments as well. Logged-in users can save recipes to their

collections. Reviews and ratings are saved, and recipe collections are updated in the user's profile. Illegal Input in this case is Inappropriate content in reviews or invalid ratings (e.g., rating out of range) triggers moderation or error handling.

Profile Management:

On their profile page their age should be visible so that the illegal action would be searching up alcoholic cocktails. They can view their saved recipes, edit their list of favorite recipies. Profile updates are saved.



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As you can see from the code above, we chose mapping approach which showcases separate relation per each entity set. In this approach, we decided to create tables one by one. Each table made for superclasses(Person, cocktail, ingredient) has its own attributes attached. As for the subclasses, (user, non-alcoholic cocktail, fizzy drink, etc..) we made tables which include foreign keys refrencing the primary keys of the parent entities. This approach helped us to represent entities at different levels of the hierarchy independently.