

CSE 111 Fall 2019: Project Phase 1

Merced Stores

Alvin Lim and Angel Snavelly

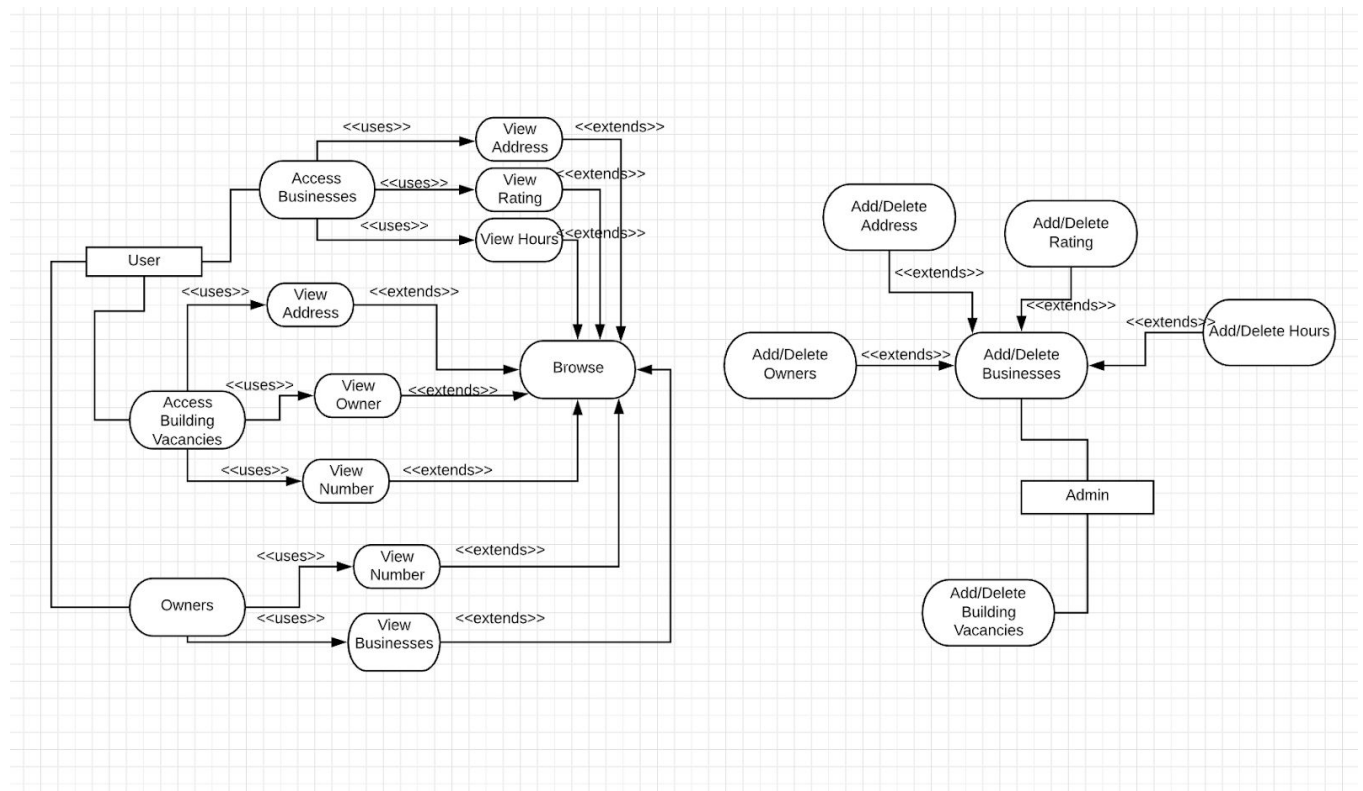
Synopsis

The purpose of the database is to have a user (who is a shop owner who wants to expand into merced) be able to search all businesses and available buildings/rooms. The user would be able to add this to a favorites function (Star) to save the owner of the vacant building/rooms as well as the address of the location. The user would also be able to access information as types of shops(fast-food, supermarket, etc.) are in districts, department (clothes, electronics, food, etc.) in districts so that the user is aware of competition.

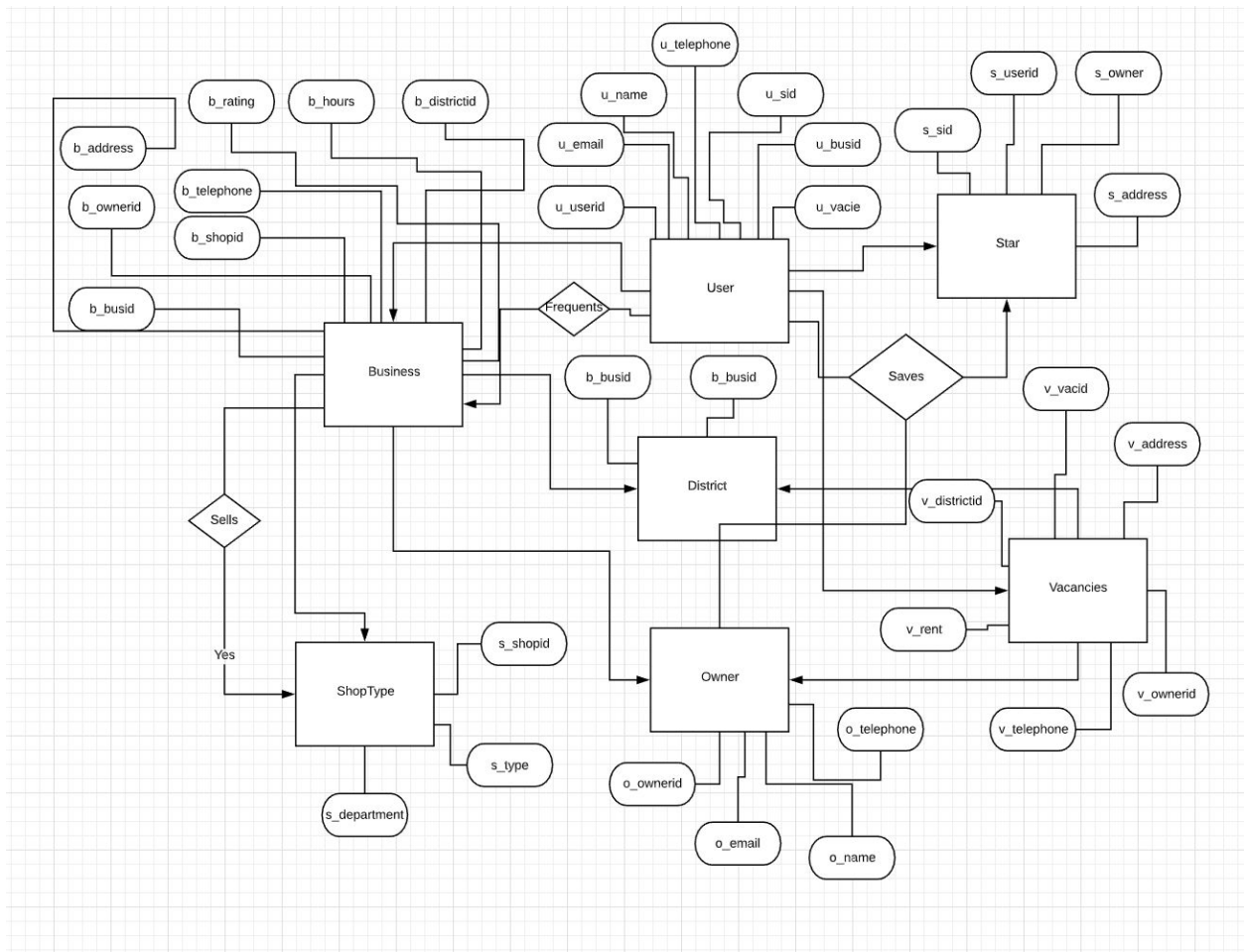
UML Use Case Diagram

The user is able to access the businesses and through that be able to browse and view all the information they would like to. They can view things such as business names, addresses, numbers etc. Users can also check for vacant buildings in Merced.

On the other hand, the admin is able to add/delete information as needed to keep the database accurate and up to date.



ER Diagram



Relational Schema

				User(u_userid, u_name, u_telephone, u_email, u_sid, u_busid, u_vacid)
	Users		Vacancies	Business(b_busid, b_ownerid, b_address, b_telephone, b_rating, b_hours, b_districtid, b_shopid)
PK	u_userid	PK	v_vacid	Vacancies(v_vacid, v_address, v_ownerid, v_telephone, v_rent, v_districtid)
	u_email		v_address	Owner(o_ownerid, o_name, o_telephone, o_email)
	u_name	FK	v_ownerid	District(d_districtid, d_districtname)
	u_telephone		v_telephone	Shoptype(s_shopid, s_type, s_department)
FK	u_sid		v_rent	Star(s_sid, s_userid, s_address, s_owner)
FK	u_busid	FK	v_districtid	
FK	u_vacid			
	Business			PK = Primary Key
PK	b_busid		Owner	FK = Foreign Key
FK	b_ownerid	PK	o_ownerid	
	b_address		o_telephone	
	b_telephone		o_email	
	b_rating		o_name	
	b_hours		District	
FK	b_districtid	PK	d_districtid	
FK	b_shopid		d_districtname	
	Star		shoptype	
PK	s_sid	PK	s_shopid	
FK	s_userid		s_type	
	s_address		s_department	
	s_owner			