Manual Tecnico

Backend creado con Java
versión de java: java 22.0.2 2024-07-16
IDE utilizado: Netbeans 23

Frontend creado con Angular:
versión de npm: 10.9.0
Angular CLI: 18.2.7
Node: 20.17.0
Bootstrap: bootstrap@5.3.3

Mapeo Físico de la DB

```
CREATE TABLE `ad` (
  `id` int NOT NULL AUTO_INCREMENT,
  `kind` varchar(45) NOT NULL,
  `time` int NOT NULL,
  `state` tinyint NOT NULL,
  `anunciante_name` varchar(45) NOT NULL,
  `date` date NOT NULL,
  `link` longtext,
  `content_type` varchar(45) DEFAULT NULL,
  `text` longtext,
  `screen_time` int DEFAULT NULL,
  `image` longblob,
  `expire_status` tinyint DEFAULT '0',
  `cost` double NOT NULL,
  PRIMARY KEY (`id`),
  KEY `fk_special_user_in_special_user_name_idx` (`anunciante_name`),
  CONSTRAINT `fk_special_user_in_special_user_name` FOREIGN KEY
(`anunciante_name`) REFERENCES `anunciante` (`user_name`) ON DELETE RESTRICT
ON UPDATE RESTRICT
) ENGINE=InnoDB AUTO_INCREMENT=19 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `admin` (
  `user_name` varchar(45) NOT NULL,
  `password` varchar(45) NOT NULL,
  `tastes` varchar(400) DEFAULT NULL,
  `photo` longblob,
  `topic_of_interest` varchar(400) DEFAULT NULL,
  `description` varchar(400) DEFAULT NULL,
  `hobbies` varchar(400) DEFAULT NULL,
  `photo_content_type` varchar(45) DEFAULT NULL,
  `photo_file_name` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`user_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `ad_view` (
  `id` int NOT NULL AUTO_INCREMENT,
  `ad` int NOT NULL,
  `date` date NOT NULL,
  `url` varchar(200) NOT NULL,
  PRIMARY KEY (`id`),
  KEY `fk_ad_id_in_ad_idx` (`ad`),
  CONSTRAINT `fk_ad_id_in_ad` FOREIGN KEY (`ad`) REFERENCES `ad` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=576 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci
```

```
CREATE TABLE `anunciante` (
  `user_name` varchar(45) NOT NULL,
  `password` varchar(45) NOT NULL,
  `tastes` varchar(400) DEFAULT '...',
  `photo` longblob,
  `topic_of_interest` varchar(400) DEFAULT '...',
  `description` varchar(400) DEFAULT '...',
  `hobbies` varchar(400) DEFAULT '...',
  `money` double DEFAULT NULL,
  `photo_content_type` varchar(45) DEFAULT NULL,
  `photo_file_name` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`user_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `associated_tag` (
  `magazine_id` int NOT NULL,
  `tag_name` varchar(45) NOT NULL,
  PRIMARY KEY (`magazine_id`,`tag_name`),
  KEY `fk_tag_in_tag_name_idx` (`tag_name`),
  CONSTRAINT `fk_magazine_in_associated_tag` FOREIGN KEY (`magazine_id`)
REFERENCES `magazine` (`id`),
  CONSTRAINT `fk_tag_in_tag_name` FOREIGN KEY (`tag_name`) REFERENCES `tag`
(`name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

REATE TABLE `comment` (
  `id` int NOT NULL AUTO_INCREMENT,
  `magazine_id` int NOT NULL,
  `subscriber_user_name` varchar(45) NOT NULL,
  `content` varchar(400) NOT NULL,
  `date` date NOT NULL,
  PRIMARY KEY (`id`),
  KEY `fk_subscriber_in_subscriber_user_name_idx` (`subscriber_user_name`),
  KEY `fk_magazine_in_magazine_id_idx` (`magazine_id`),
  CONSTRAINT `fk_magazine_in_comment` FOREIGN KEY (`magazine_id`)
REFERENCES `magazine` (`id`),
  CONSTRAINT `fk_subscriber_in_comment` FOREIGN KEY (`subscriber_user_name`)
REFERENCES `subscriber` (`user_name`)
) ENGINE=InnoDB AUTO_INCREMENT=20 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `editor` (
  `user_name` varchar(45) NOT NULL,
  `password` varchar(45) NOT NULL,
  `tastes` varchar(400) DEFAULT NULL,
  `photo` longblob,
  `topic_of_interest` varchar(400) DEFAULT NULL,
  `description` varchar(400) DEFAULT NULL,
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  `hobbies` varchar(400) DEFAULT NULL,
  `photo_file_name` varchar(45) DEFAULT NULL,
  `photo_content_type` varchar(45) DEFAULT NULL,
  `money` double DEFAULT NULL,
  PRIMARY KEY (`user_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `global_cost` (
  `name` varchar(45) NOT NULL,
  `cost` double NOT NULL,
  PRIMARY KEY (`name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `lock_ad` (
  `id` int NOT NULL AUTO_INCREMENT,
  `editor` varchar(45) NOT NULL,
  `days` int NOT NULL,
  `date` date NOT NULL,
  `cost` double NOT NULL,
  `expire_status` varchar(45) DEFAULT 'false',
  PRIMARY KEY (`id`),
  KEY `editor_in_editor_user_name_idx` (`editor`),
  CONSTRAINT `editor_in_editor_user_name` FOREIGN KEY (`editor`) REFERENCES
`editor` (`user_name`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `magazine` (
  `id` int NOT NULL AUTO_INCREMENT,
  `description` varchar(400) NOT NULL,
  `daily_cost` double DEFAULT NULL,
  `category` varchar(45) NOT NULL,
  `likes` int DEFAULT NULL,
  `comment_status` tinyint DEFAULT NULL,
  `subscription_status` tinyint DEFAULT NULL,
  `date` date NOT NULL,
  `editor_user_name` varchar(45) NOT NULL,
  `tittle` varchar(200) NOT NULL,
  PRIMARY KEY (`id`),
  KEY `fk_editor_in_editor_user_name_idx` (`editor_user_name`),
  CONSTRAINT `fk_editor_in_editor_user_name` FOREIGN KEY (`editor_user_name`)
REFERENCES `editor` (`user_name`)
) ENGINE=InnoDB AUTO_INCREMENT=62 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `magazine_number` (
  `id` int NOT NULL AUTO_INCREMENT,
  `magazine` int NOT NULL,
```

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  `pdf` longblob NOT NULL,
  `content_type` varchar(45) NOT NULL,
  `file_name` varchar(300) NOT NULL,
  PRIMARY KEY (`id`),
  KEY `fk_magazine_id_ind_magazine_idx` (`magazine`),
  CONSTRAINT `fk_magazine_id_ind_magazine` FOREIGN KEY (`magazine`)
REFERENCES `magazine` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=20 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `subscribed_magazine` (
  `subscriber_user_name` varchar(45) NOT NULL,
  `magazine_id` int NOT NULL,
  `date` date NOT NULL,
  `is_liked` tinyint DEFAULT NULL,
  PRIMARY KEY (`subscriber_user_name`,`magazine_id`),
  KEY `fk_magazine_in_magazine_id_idx` (`magazine_id`),
  CONSTRAINT `fk_magazine_in_magazine_id` FOREIGN KEY (`magazine_id`)
REFERENCES `magazine` (`id`),
  CONSTRAINT `fk_subscriber_in_subscriber_user_name` FOREIGN KEY
(`subscriber_user_name`) REFERENCES `subscriber` (`user_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `subscriber` (
  `user_name` varchar(45) NOT NULL,
  `password` varchar(45) NOT NULL,
  `tastes` varchar(400) DEFAULT NULL,
  `photo` longblob,
  `topic_of_interest` varchar(400) DEFAULT NULL,
  `description` varchar(400) DEFAULT NULL,
  `hobbies` varchar(400) DEFAULT NULL,
  `photo_file_name` varchar(45) DEFAULT NULL,
  `photo_content_type` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`user_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `tag` (
  `name` varchar(45) NOT NULL,
  PRIMARY KEY (`name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `time_cost` (
  `name` varchar(45) NOT NULL,
  `cost` double NOT NULL,
  `days` int NOT NULL,
  PRIMARY KEY (`name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Diagrama de Entidad Relación

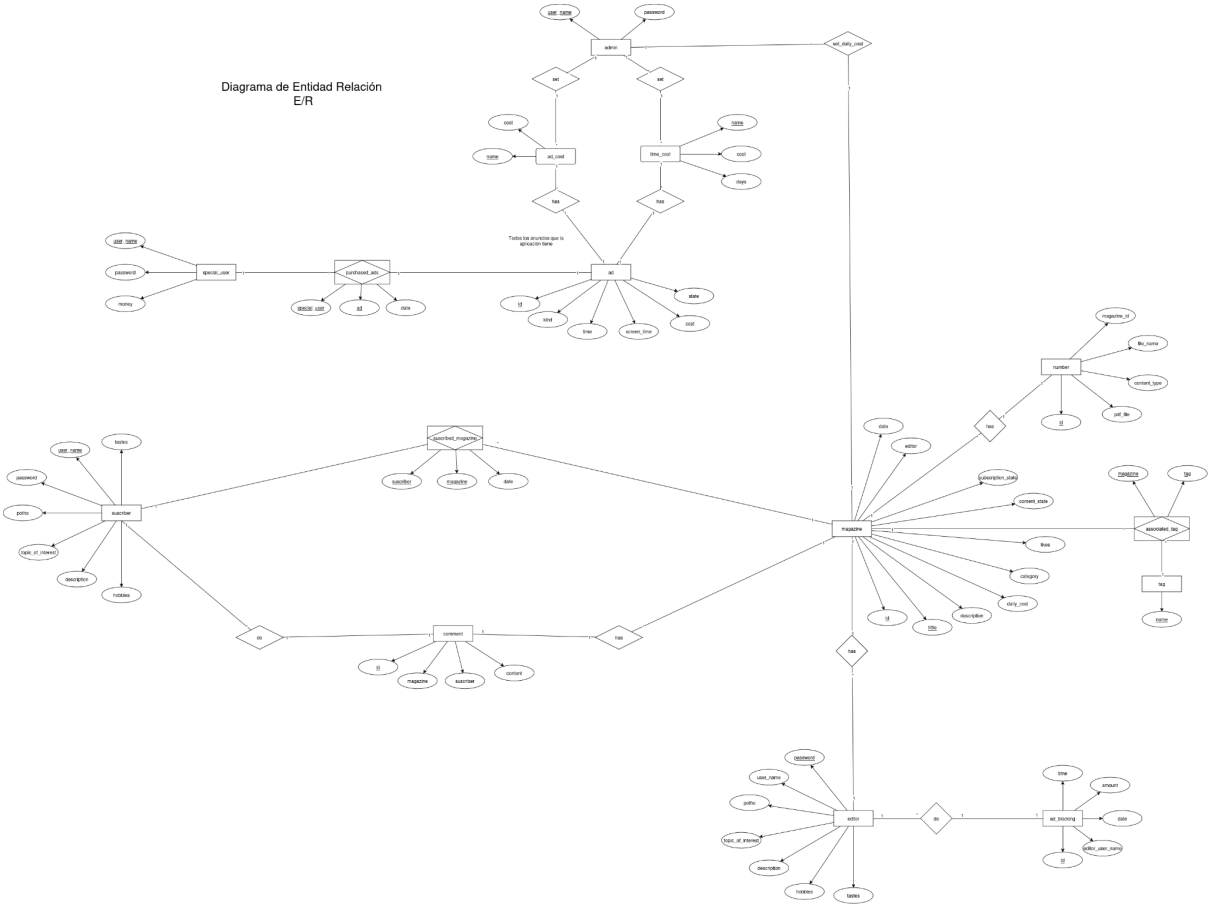

Diagrama de Tablas

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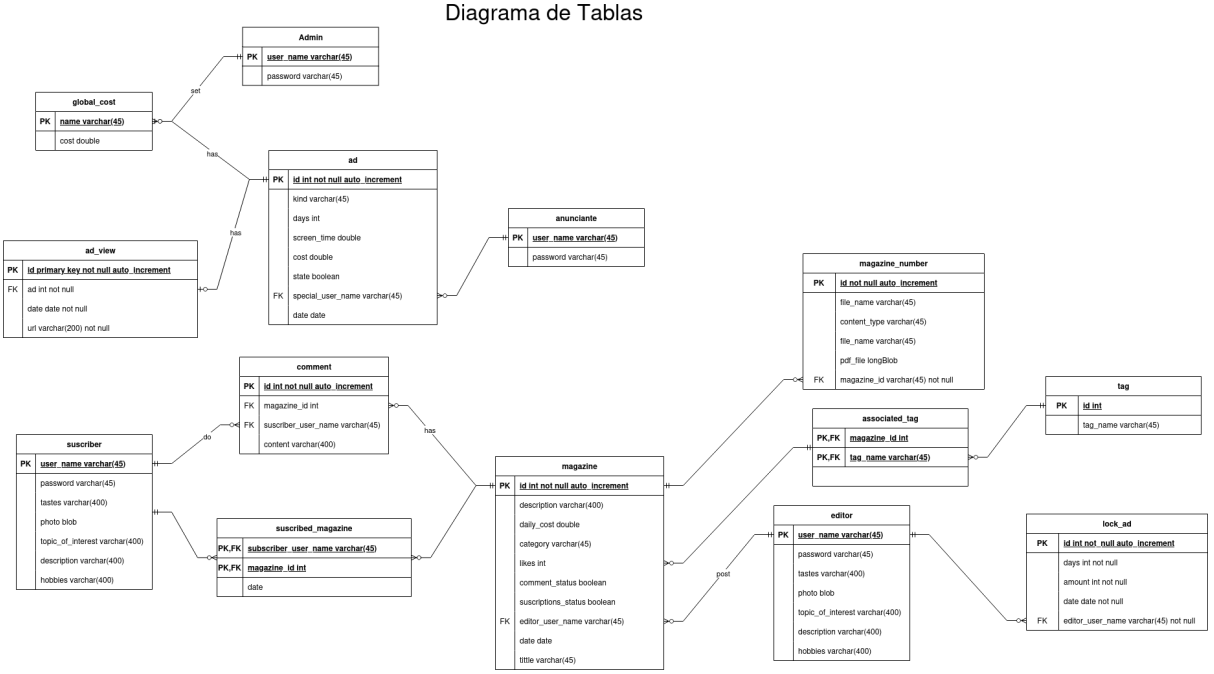


Diagrama de Casos de Uso

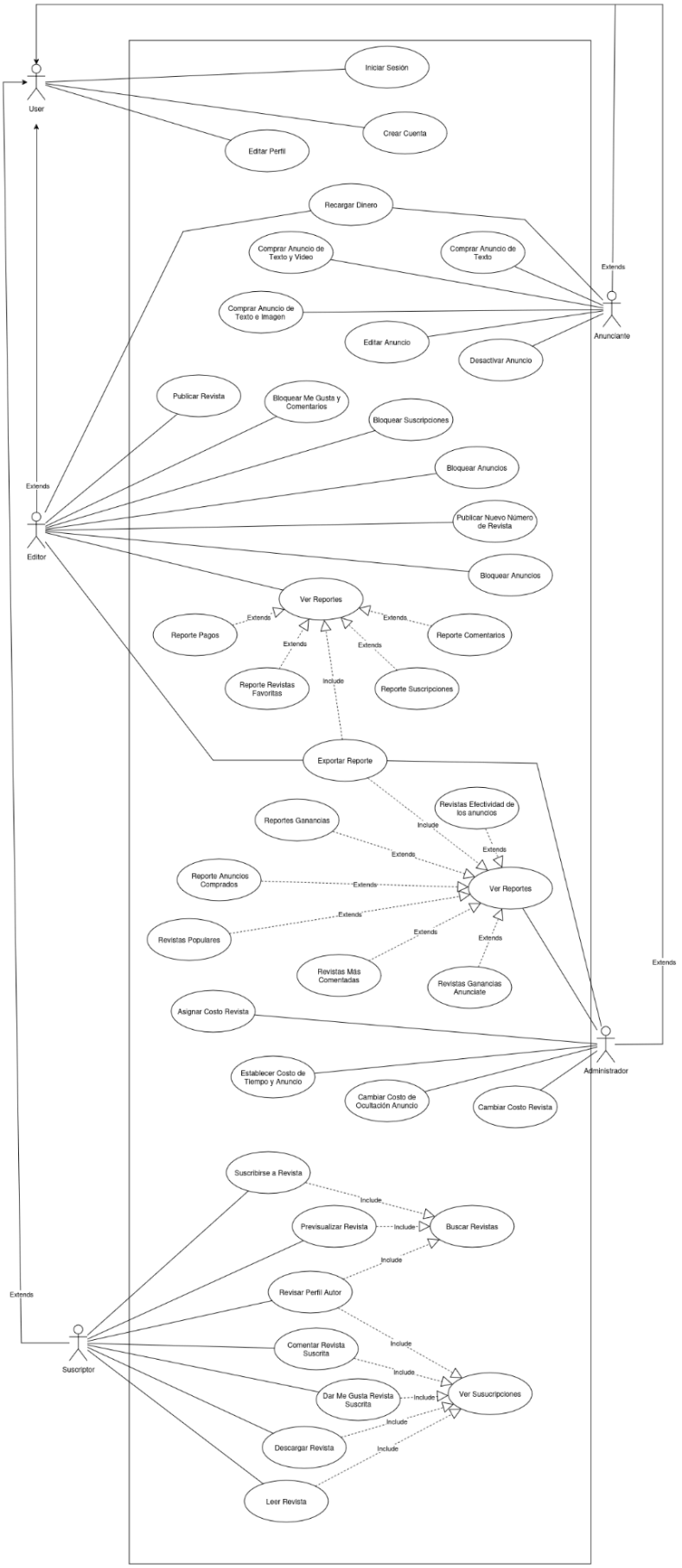


Diagrama de clases

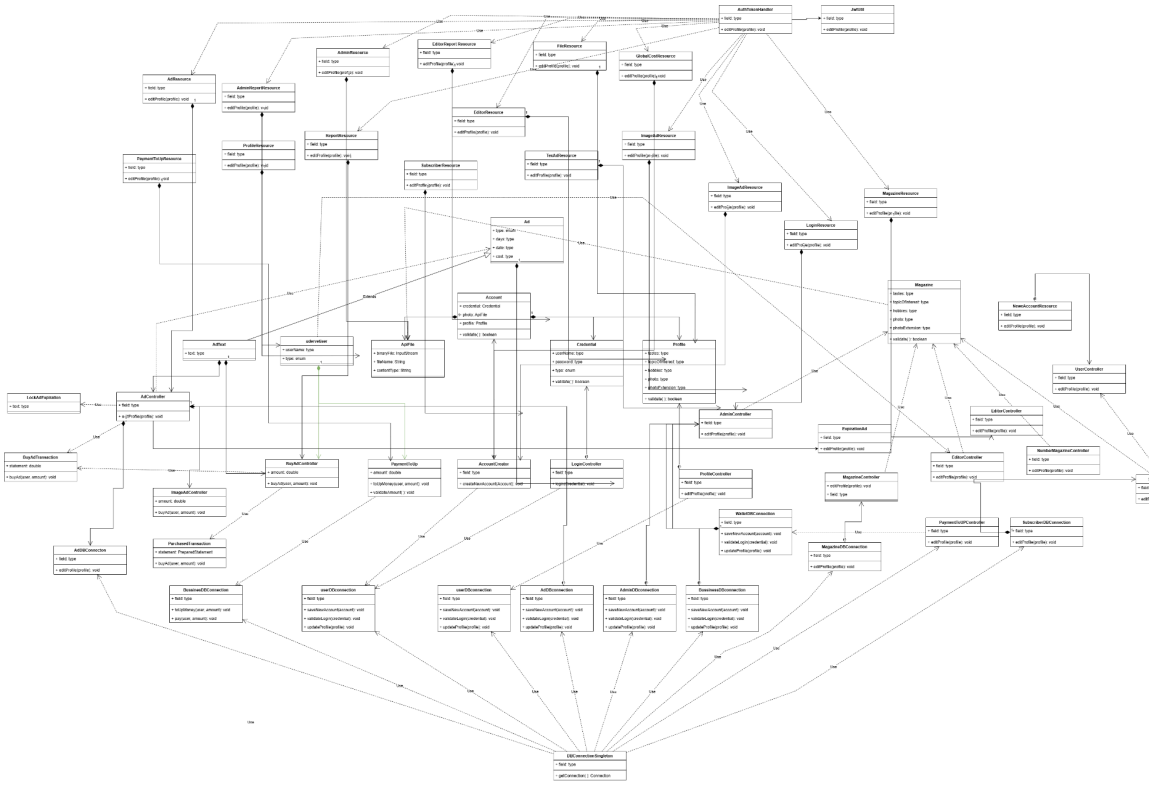


Diagrama de Componentes fronted

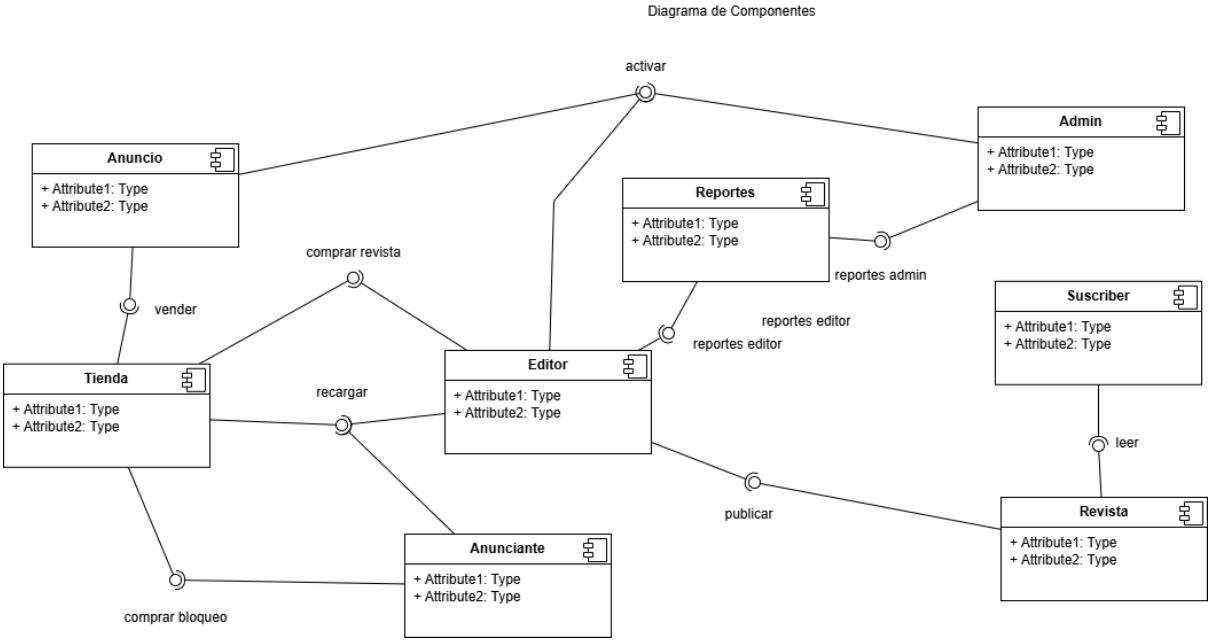


Diagrama de Componentes Backend

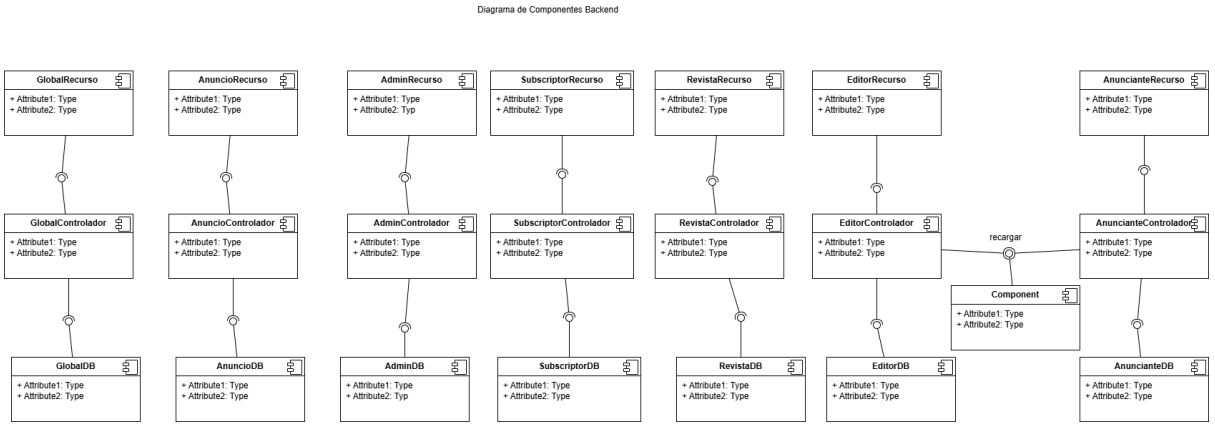
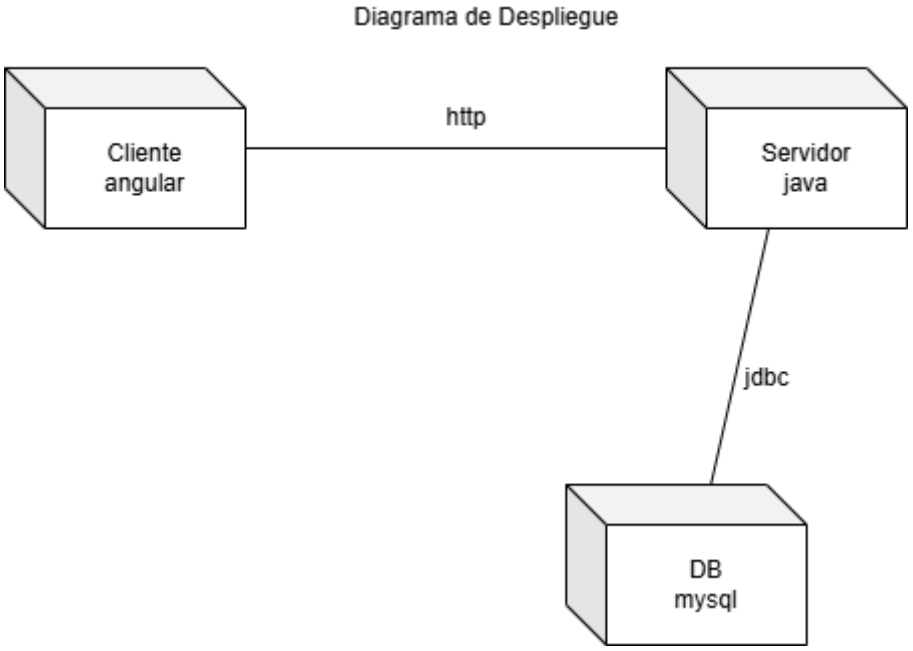


Diagrama de Despliegue



Para poder desplegar la aplicación se debe de insertar los compilados de ambas aplicaciones en un servidor, en el caso de apache tomcat, se deben colocar los compilados en la carpeta “websApps” de tomcat.