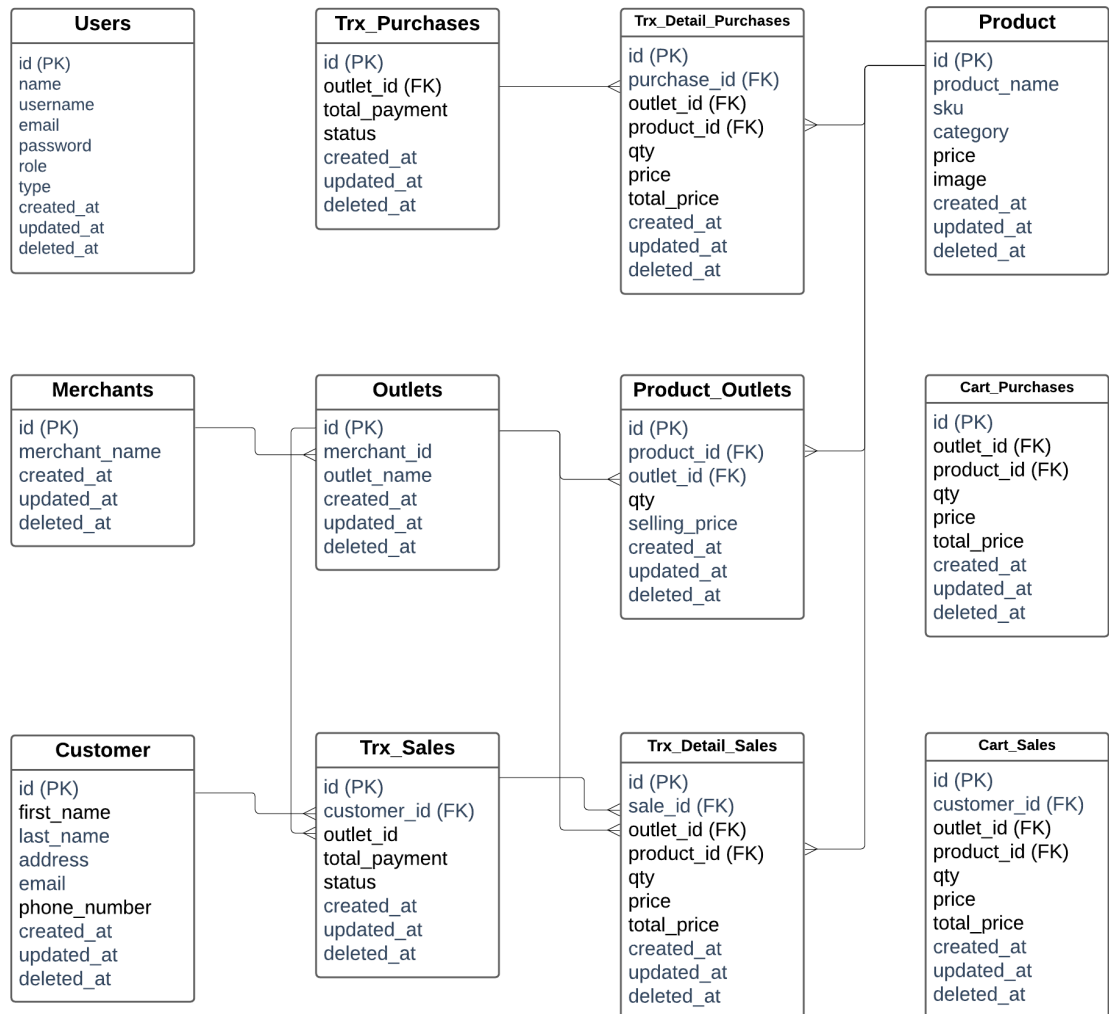


Dokumentasi

1. Entity Relation Diagram (ERD)



2. Data Manipulation Language (DML)

2.1. Membuat database

```
CREATE DATABASE api_pos;
```

2.2. Membuat tabel users

```
CREATE TABLE `users` (  
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,  
  `name` longtext,
```

```

`username` varchar(191) DEFAULT NULL,
`email` varchar(191) DEFAULT NULL,
`password` longtext,
`role` enum('superadmin','admin') DEFAULT 'admin',
`type` enum('merchant','outlet') DEFAULT 'outlet',
`created_at` datetime(3) DEFAULT NULL,
`updated_at` datetime(3) DEFAULT NULL,
`deleted_at` datetime(3) DEFAULT NULL,
PRIMARY KEY (`id`),
UNIQUE KEY `username` (`username`),
UNIQUE KEY `email` (`email`),
KEY `idx_users_deleted_at` (`deleted_at`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8;

```

2.3. Membuat tabel merchants

```

CREATE TABLE `merchants` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `merchant_name` varchar(191) DEFAULT NULL,
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `merchant_name` (`merchant_name`),
  KEY `idx_merchants_deleted_at` (`deleted_at`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;

```

2.4. Membuat tabel outlets

```

CREATE TABLE `outlets` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `merchant_id` bigint(20) unsigned NOT NULL,
  `outlet_name` varchar(191) DEFAULT NULL,
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `outlet_name` (`outlet_name`),
  KEY `idx_outlets_deleted_at` (`deleted_at`),
  KEY `fk_outlets_merchant` (`merchant_id`),
  CONSTRAINT `fk_outlets_merchant` FOREIGN KEY (`merchant_id`)
REFERENCES `merchants` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8;

```

2.5. Membuat tabel products

```

CREATE TABLE `products` (

```

```

`id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
`product_name` longtext,
`sku` varchar(191) DEFAULT NULL,
`category` longtext,
`price` bigint(20) DEFAULT NULL,
`image` longtext,
`created_at` datetime(3) DEFAULT NULL,
`updated_at` datetime(3) DEFAULT NULL,
`deleted_at` datetime(3) DEFAULT NULL,
PRIMARY KEY (`id`),
UNIQUE KEY `sku` (`sku`),
KEY `idx_products_deleted_at` (`deleted_at`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8;

```

2.6. Membuat tabel customers

```

CREATE TABLE `customers` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `first_name` longtext,
  `last_name` longtext,
  `address` longtext,
  `email` varchar(191) DEFAULT NULL,
  `phone_number` varchar(191) DEFAULT NULL,
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `email` (`email`),
  UNIQUE KEY `phone_number` (`phone_number`),
  KEY `idx_customers_deleted_at` (`deleted_at`)
) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=utf8;

```

2.7. Membuat tabel product outlets

```

CREATE TABLE `product_outlets` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `product_id` bigint(20) unsigned NOT NULL,
  `outlet_id` bigint(20) unsigned NOT NULL,
  `qty` bigint(20) DEFAULT NULL,
  `selling_price` bigint(20) DEFAULT NULL,
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `idx_product_outlets_deleted_at` (`deleted_at`),
  KEY `fk_product_outlets_product` (`product_id`),
  KEY `fk_product_outlets_outlet` (`outlet_id`),

```

```

    CONSTRAINT `fk_product_outlets_outlet` FOREIGN KEY (`outlet_id`)
REFERENCES `outlets` (`id`),
    CONSTRAINT `fk_product_outlets_product` FOREIGN KEY (`product_id`)
REFERENCES `products` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8;

```

2.8. Membuat tabel cart purchases(pembelian)

```

CREATE TABLE `cart_purchases` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `outlet_id` bigint(20) unsigned NOT NULL,
  `product_id` bigint(20) unsigned NOT NULL,
  `qty` bigint(20) DEFAULT NULL,
  `price` bigint(20) DEFAULT NULL,
  `total_price` bigint(20) DEFAULT NULL,
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `idx_cart_purchases_deleted_at` (`deleted_at`),
  KEY `fk_cart_purchases_outlet` (`outlet_id`),
  KEY `fk_cart_purchases_product` (`product_id`),
  CONSTRAINT `fk_cart_purchases_outlet` FOREIGN KEY (`outlet_id`)
REFERENCES `outlets` (`id`),
  CONSTRAINT `fk_cart_purchases_product` FOREIGN KEY (`product_id`)
REFERENCES `products` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=12 DEFAULT CHARSET=utf8;

```

2.9. Membuat tabel transaction purchases (transaksi pembelian)

```

CREATE TABLE `trx_purchases` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `outlet_id` bigint(20) unsigned NOT NULL,
  `total_payment` bigint(20) DEFAULT NULL,
  `status` enum('paid','unpaid') DEFAULT 'unpaid',
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `idx_trx_purchases_deleted_at` (`deleted_at`),
  KEY `fk_trx_purchases_outlet` (`outlet_id`),
  CONSTRAINT `fk_trx_purchases_outlet` FOREIGN KEY (`outlet_id`)
REFERENCES `outlets` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8;

```

2.10. Membuat tabel transaction detail purchases (transaksi pembelian)

```
CREATE TABLE `trx_detail_purchases` (  
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,  
  `purchase_id` bigint(20) unsigned NOT NULL,  
  `outlet_id` bigint(20) unsigned NOT NULL,  
  `product_id` bigint(20) unsigned NOT NULL,  
  `qty` bigint(20) DEFAULT NULL,  
  `price` bigint(20) DEFAULT NULL,  
  `total_price` bigint(20) DEFAULT NULL,  
  `created_at` datetime(3) DEFAULT NULL,  
  `updated_at` datetime(3) DEFAULT NULL,  
  `deleted_at` datetime(3) DEFAULT NULL,  
  PRIMARY KEY (`id`),  
  KEY `idx_trx_detail_purchases_deleted_at` (`deleted_at`),  
  KEY `fk_trx_detail_purchases_product` (`product_id`),  
  KEY `fk_trx_detail_purchases_outlet` (`outlet_id`),  
  KEY `fk_trx_purchases_detail` (`purchase_id`),  
  CONSTRAINT `fk_trx_detail_purchases_outlet` FOREIGN KEY (`outlet_id`)  
REFERENCES `outlets` (`id`),  
  CONSTRAINT `fk_trx_detail_purchases_product` FOREIGN KEY  
(`product_id`) REFERENCES `products` (`id`),  
  CONSTRAINT `fk_trx_purchases_detail` FOREIGN KEY (`purchase_id`)  
REFERENCES `trx_purchases` (`id`)  
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=utf8;
```

2.11. Membuat tabel cart sales(penjualan)

```
CREATE TABLE `cart_sales` (  
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,  
  `customer_id` bigint(20) unsigned NOT NULL,  
  `outlet_id` bigint(20) unsigned NOT NULL,  
  `product_id` bigint(20) unsigned NOT NULL,  
  `qty` bigint(20) DEFAULT NULL,  
  `price` bigint(20) DEFAULT NULL,  
  `total_price` bigint(20) DEFAULT NULL,  
  `created_at` datetime(3) DEFAULT NULL,  
  `updated_at` datetime(3) DEFAULT NULL,  
  `deleted_at` datetime(3) DEFAULT NULL,  
  PRIMARY KEY (`id`),  
  KEY `idx_cart_sales_deleted_at` (`deleted_at`),  
  KEY `fk_cart_sales_customer` (`customer_id`),  
  KEY `fk_cart_sales_outlet` (`outlet_id`),  
  KEY `fk_cart_sales_product` (`product_id`),  
  CONSTRAINT `fk_cart_sales_customer` FOREIGN KEY (`customer_id`)  
REFERENCES `customers` (`id`),
```

```

    CONSTRAINT `fk_cart_sales_outlet` FOREIGN KEY (`outlet_id`)
REFERENCES `outlets` (`id`),
    CONSTRAINT `fk_cart_sales_product` FOREIGN KEY (`product_id`)
REFERENCES `products` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=9 DEFAULT CHARSET=utf8;

```

2.12. Membuat tabel transaction sales (transaksi penjualan)

```

CREATE TABLE `trx_sales` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `customer_id` bigint(20) unsigned NOT NULL,
  `outlet_id` bigint(20) unsigned NOT NULL,
  `total_payment` bigint(20) DEFAULT NULL,
  `status` enum('paid','unpaid') DEFAULT 'unpaid',
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `idx_trx_sales_deleted_at` (`deleted_at`),
  KEY `fk_trx_sales_customer` (`customer_id`),
  KEY `fk_trx_sales_outlet` (`outlet_id`),
  CONSTRAINT `fk_trx_sales_customer` FOREIGN KEY (`customer_id`)
REFERENCES `customers` (`id`),
  CONSTRAINT `fk_trx_sales_outlet` FOREIGN KEY (`outlet_id`) REFERENCES
`outlets` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8;

```

2.13. Membuat tabel transaction detail sales (transaksi penjualan)

```

CREATE TABLE `trx_detail_sales` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `sale_id` bigint(20) unsigned DEFAULT NULL,
  `outlet_id` bigint(20) unsigned DEFAULT NULL,
  `product_id` bigint(20) unsigned DEFAULT NULL,
  `qty` bigint(20) DEFAULT NULL,
  `price` bigint(20) DEFAULT NULL,
  `total_price` bigint(20) DEFAULT NULL,
  `created_at` datetime(3) DEFAULT NULL,
  `updated_at` datetime(3) DEFAULT NULL,
  `deleted_at` datetime(3) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `idx_trx_detail_sales_deleted_at` (`deleted_at`),
  KEY `fk_trx_detail_sales_product` (`product_id`),
  KEY `fk_trx_detail_sales_outlet` (`outlet_id`),
  KEY `fk_trx_sales_detail` (`sale_id`),
  CONSTRAINT `fk_trx_detail_sales_outlet` FOREIGN KEY (`outlet_id`)
REFERENCES `outlets` (`id`),

```

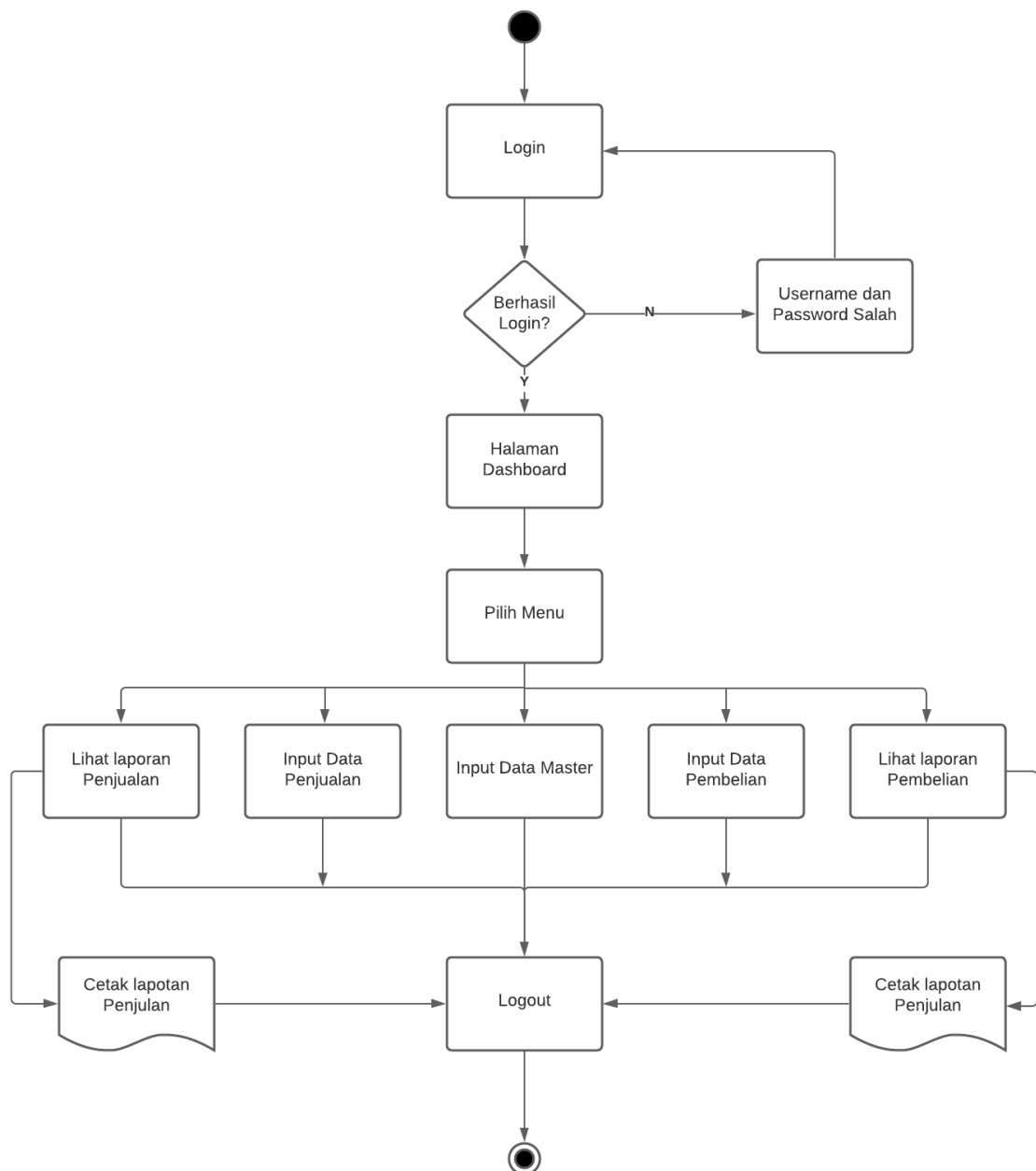
```

    CONSTRAINT `fk_trx_detail_sales_product` FOREIGN KEY (`product_id`)
    REFERENCES `products` (`id`),
    CONSTRAINT `fk_trx_sales_detail` FOREIGN KEY (`sale_id`) REFERENCES
    `trx_sales` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=9 DEFAULT CHARSET=utf8;

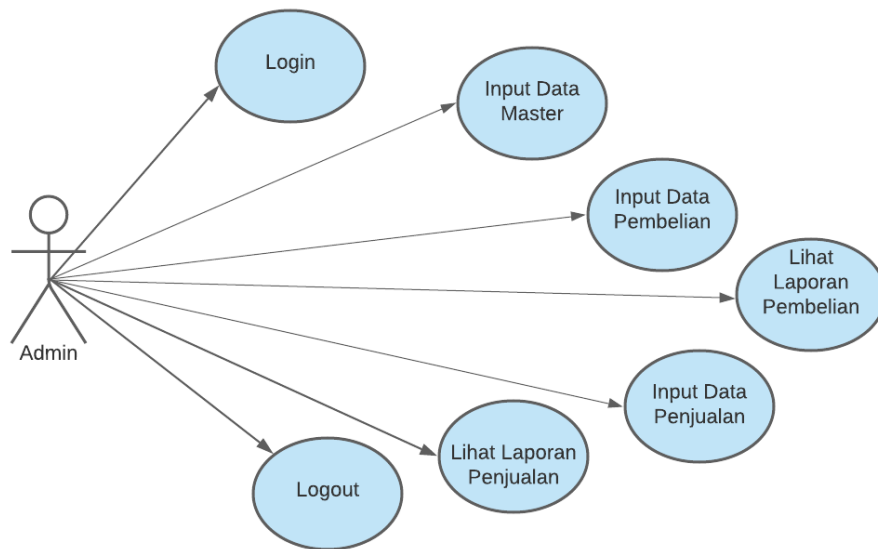
```

2.14. Membuat tabel transaction sales (transaksi penjualan)

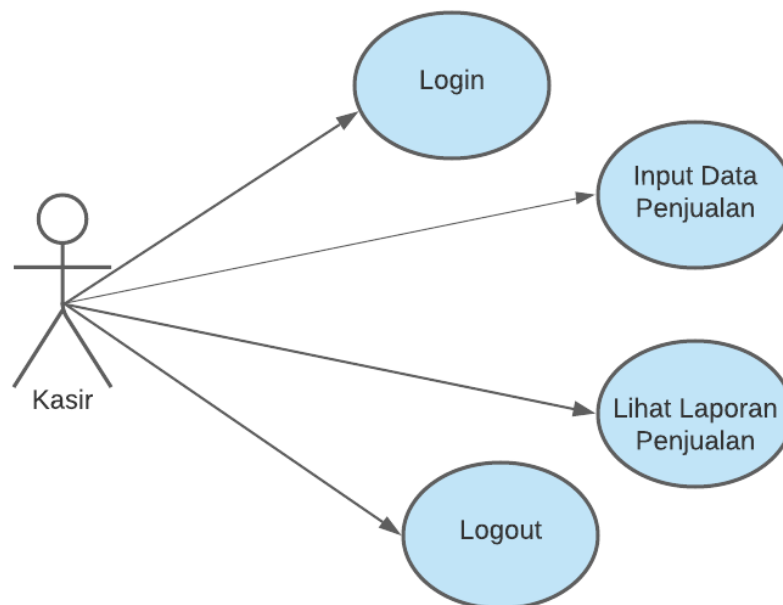
3. Activity Diagrams



4. Use Case Diagrams



Use case diagram admin



Use case diagram Kasir