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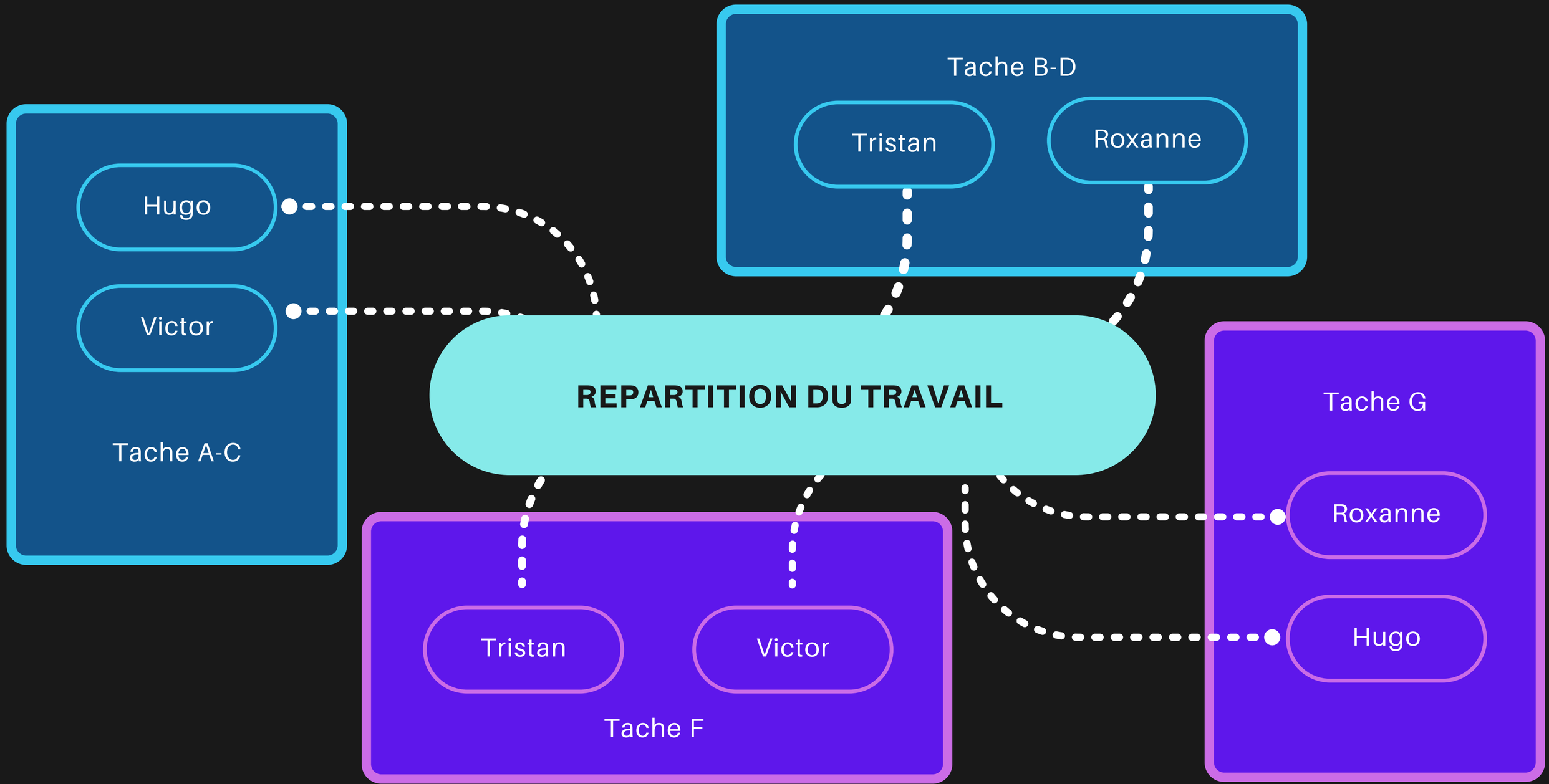
Projet de bases de données

conception de l'application

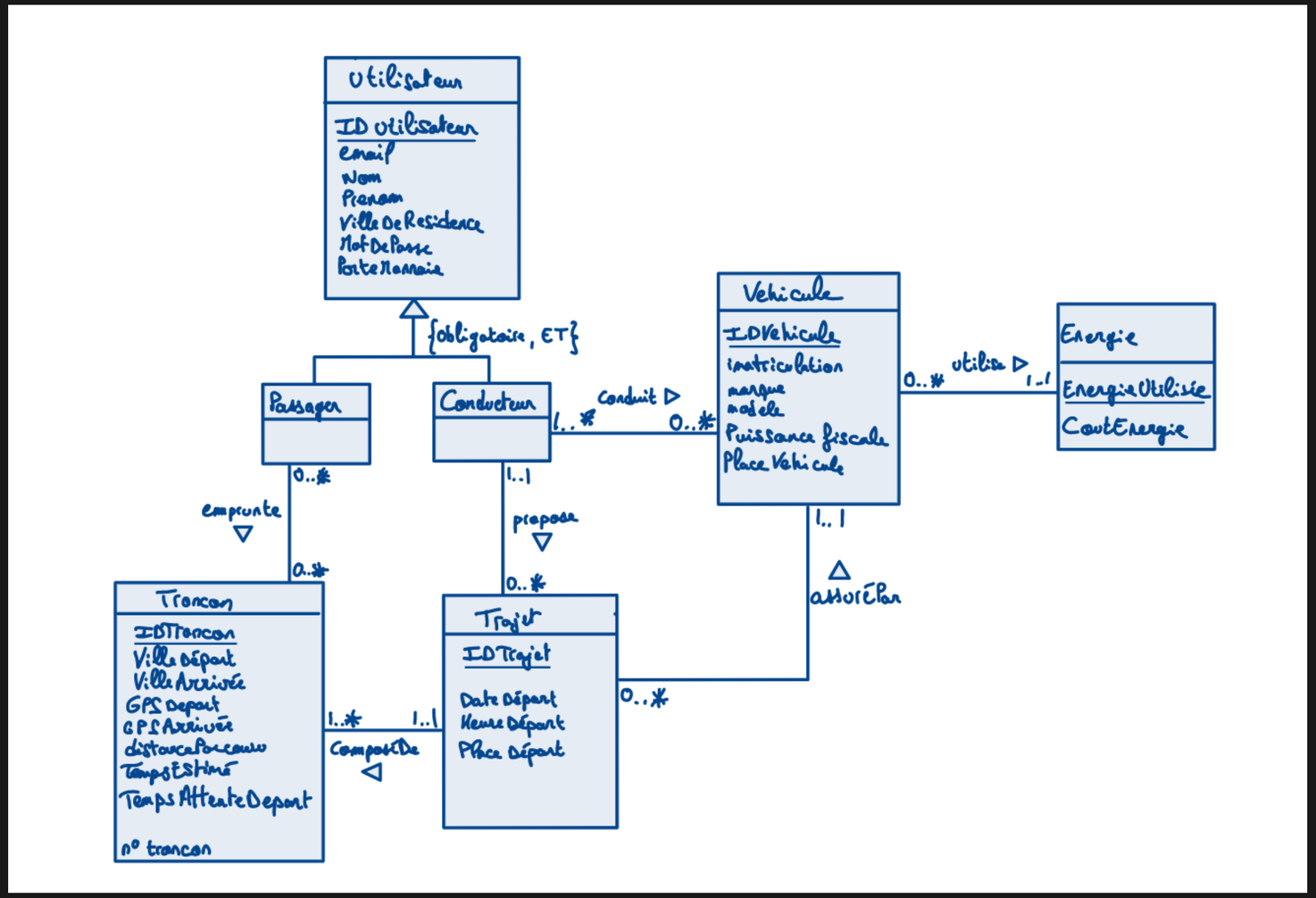
VerbiageVoiture

Stratégie organisationnelle



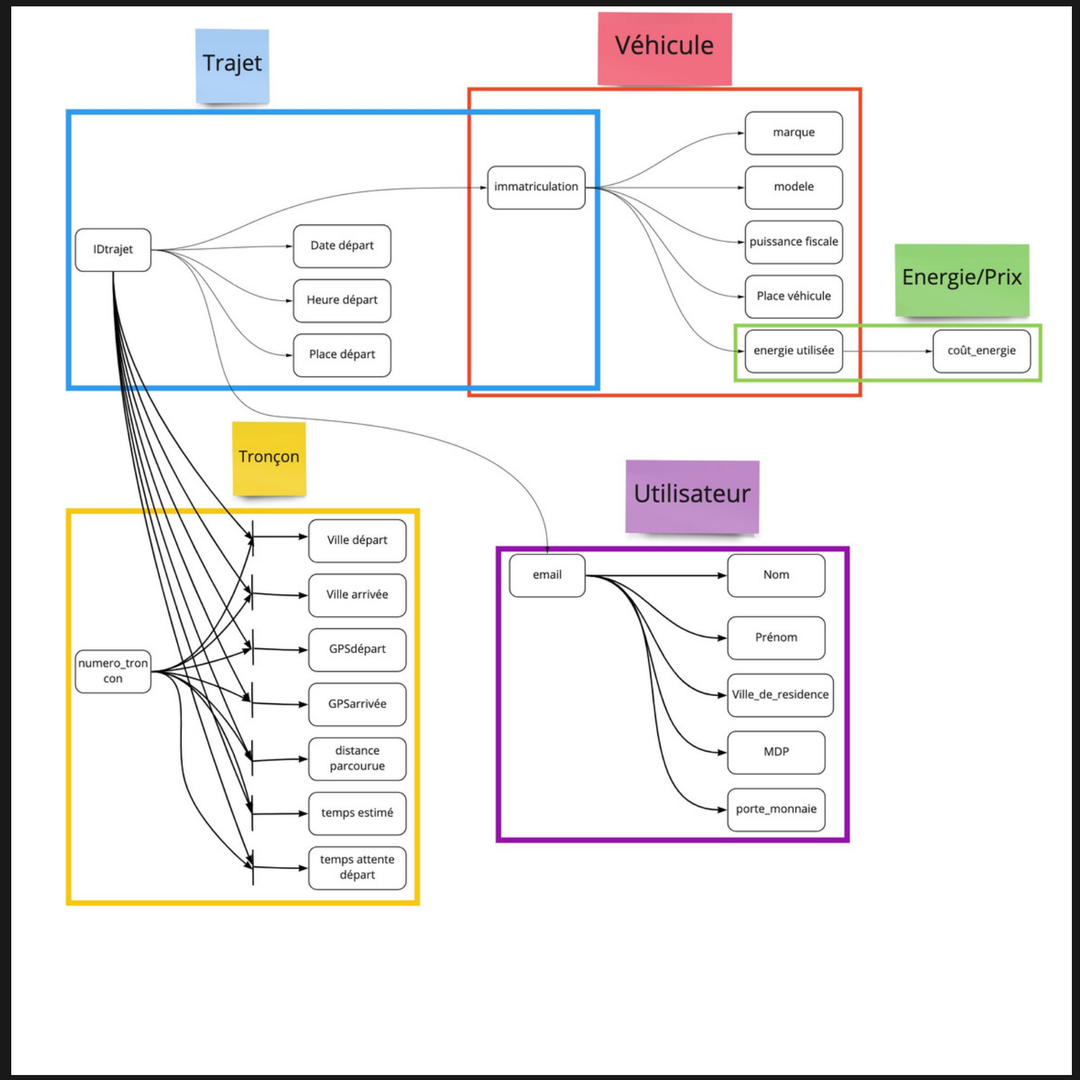
Analyse de la structure de BD

Schéma Entités/Associations

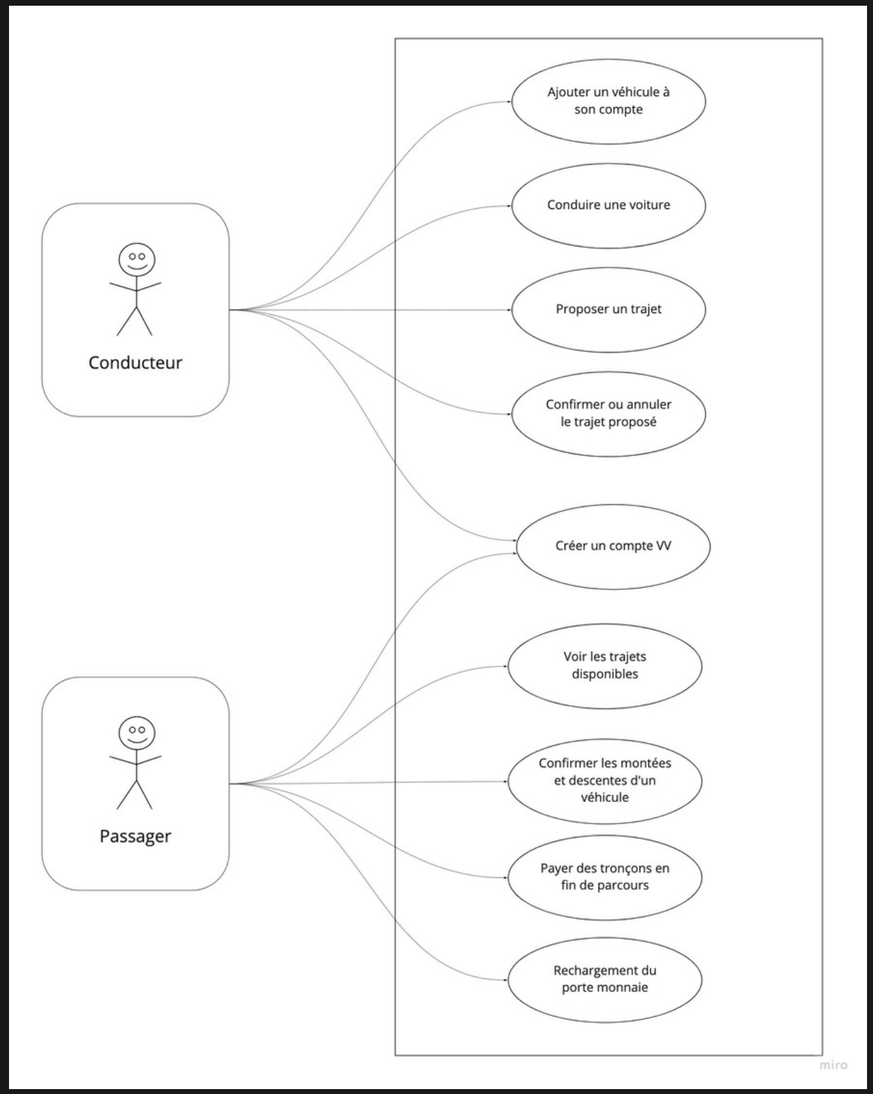


Analyse de la structure de BD

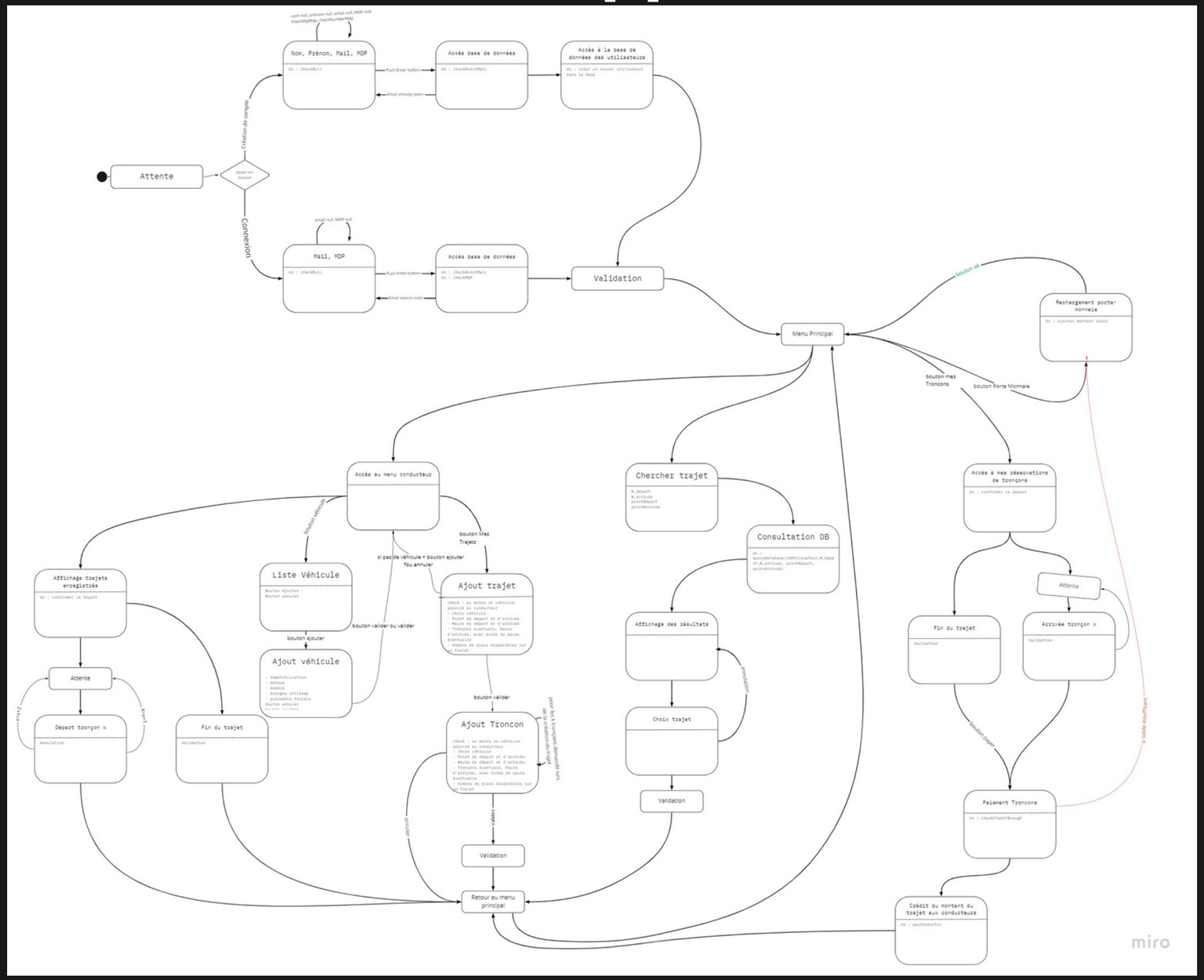
Schéma relationnel



Analyse fonctionnelle de l'app

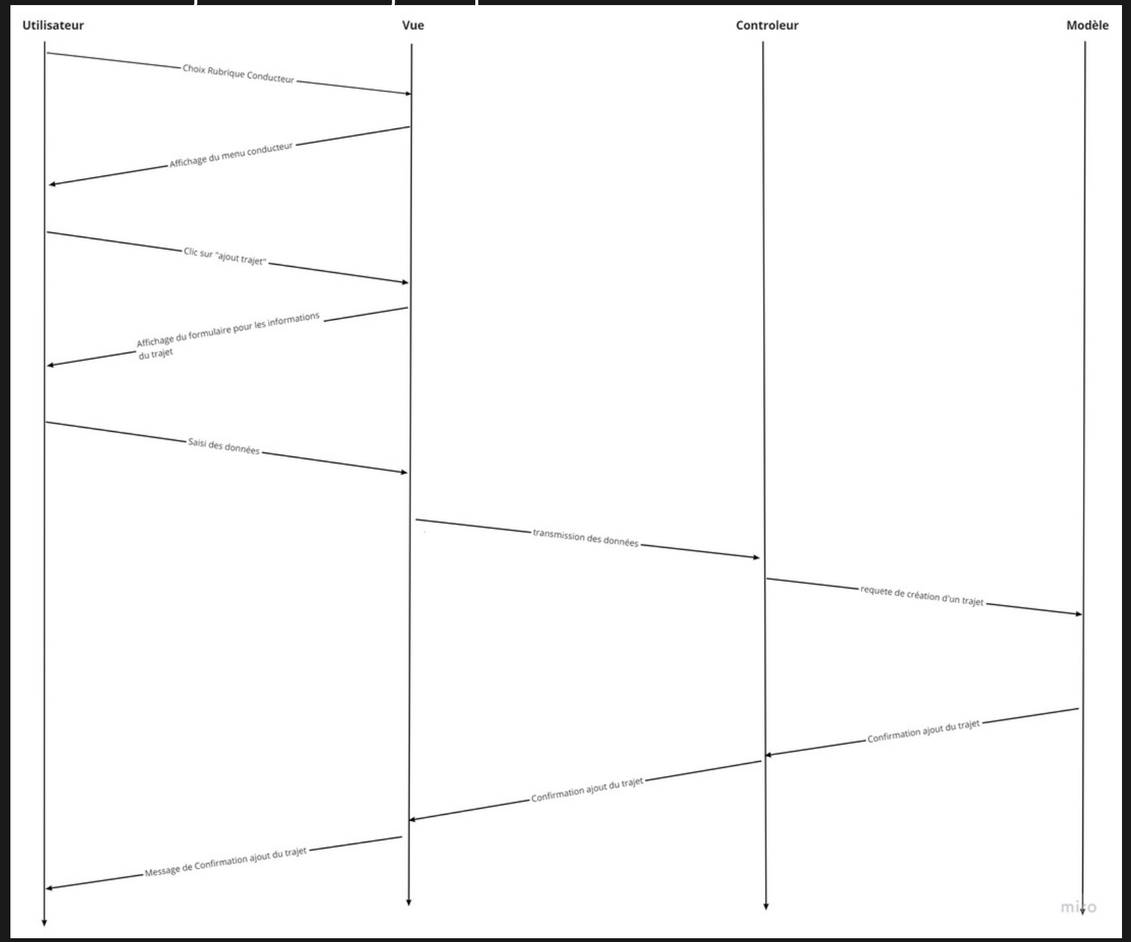


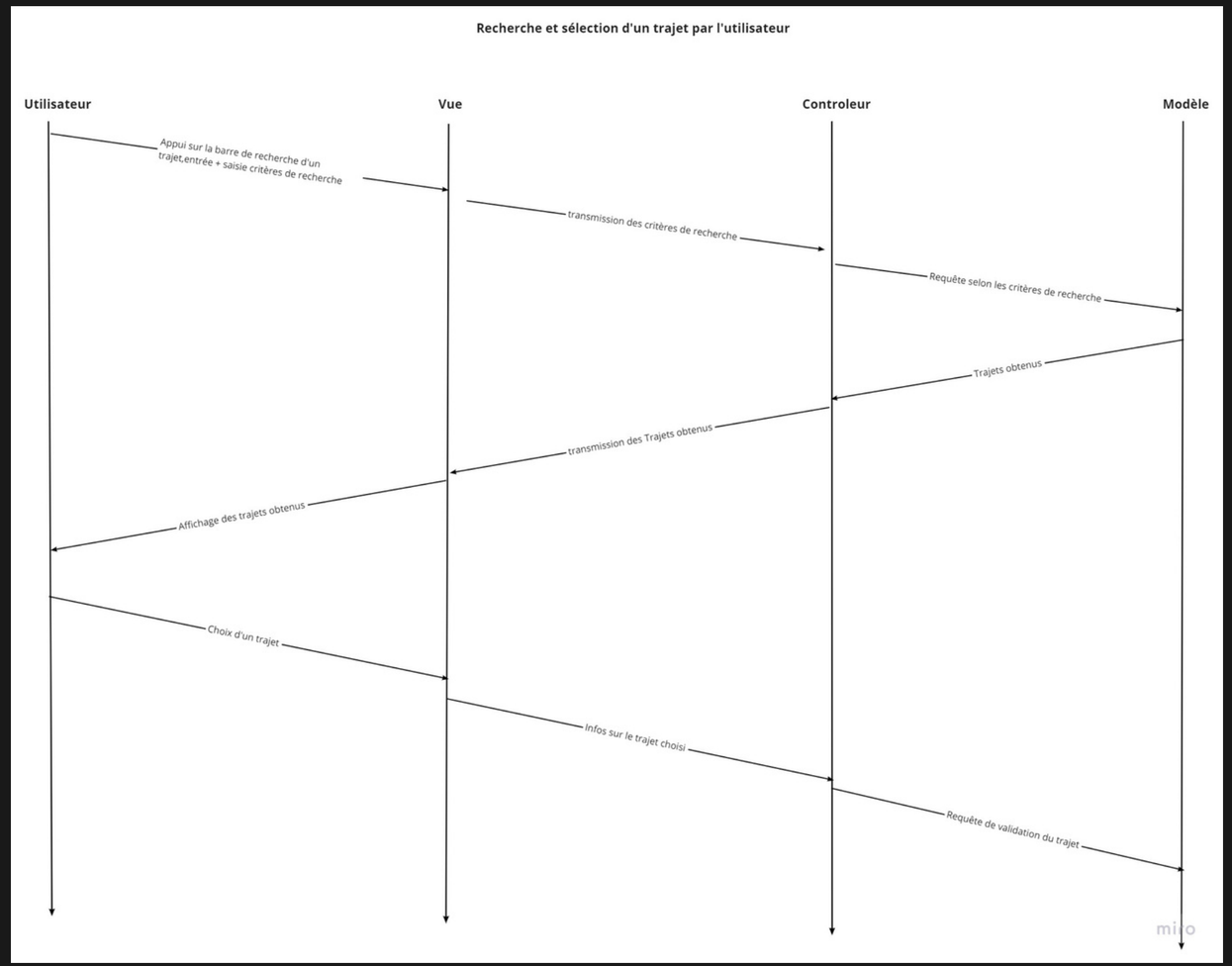
Analyse fonctionnelle de l'app



Analyse fonctionnelle de l'app

Ajout trajet par un conducteur





Implémentation des accès à la Base De Donnée

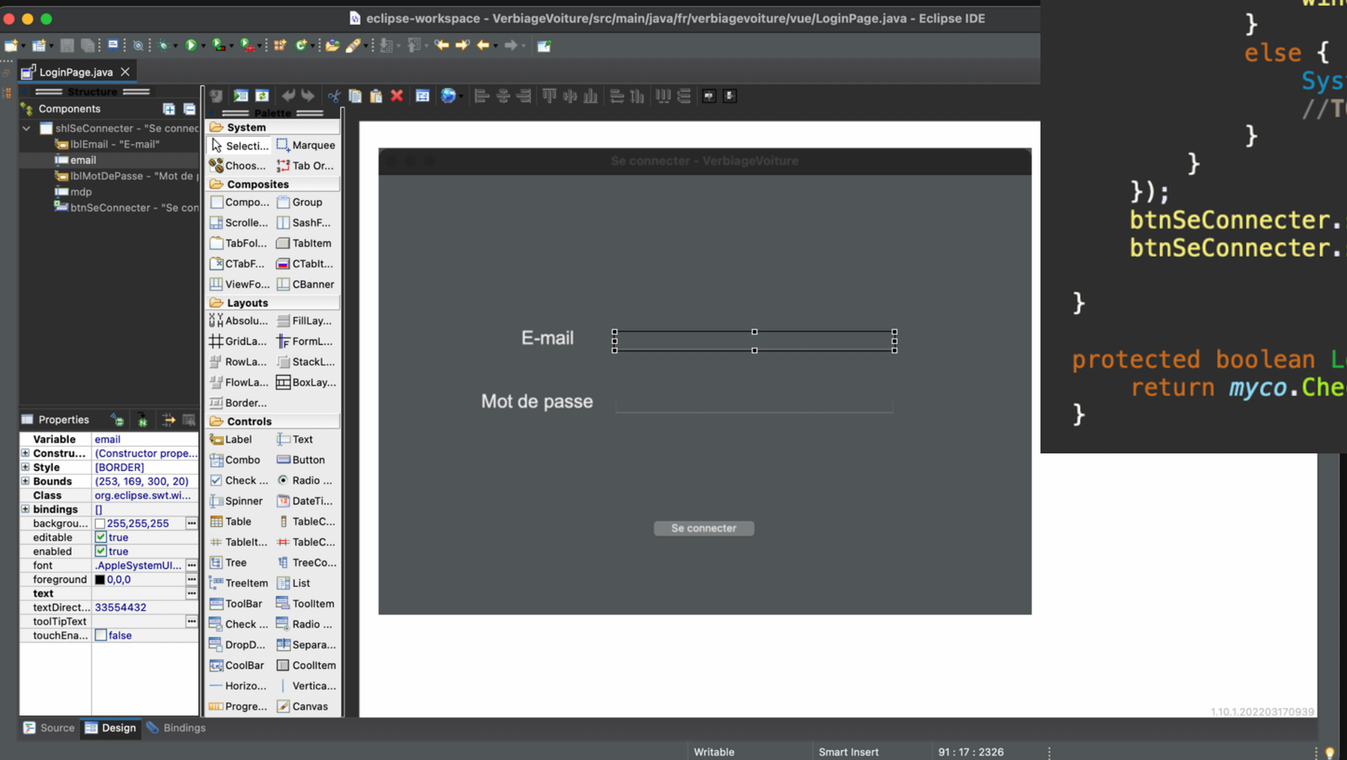

```java
    // Méthode qui crée une connexion à la BD
    public MyConnection() {
        try{
            // Chargement du driver Oracle
            System.out.print("Loading Oracle driver... ");
            DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
            System.out.println("loaded");

            // Connection à la BD
            System.out.print("Connecting to the database... ");
            this.conn = (Connection) DriverManager.getConnection(URL, USERNAME, PASSWD);
            System.out.println("connected");

            // Demarrage de la transaction (implicite)
            this.conn.setAutoCommit(false); // Pas de autocommit
            this.conn.setTransactionIsolation(Connection.TRANSACTION_SERIALIZABLE);
        } catch (SQLException e) {
            System.err.println("failed");
            e.printStackTrace(System.err);
            this.conn = null;
        }
        user = new UtilisateurController(conn);
        vehicule = new VehiculeController(conn);
        troncon = new TronconController(conn);
        trajet = new TrajetController(conn);
        energie = new EnergieController(conn);
    }
```

```java
    //fermeture de la connexion
    public void closeConnection() throws SQLException {
        try {
            System.out.print("closing connection to the database... ");
            conn.close();
            System.out.println("closed ");
        } catch (SQLException e) {
            System.err.println("failed");
            e.printStackTrace(System.err);
            this.conn = null;
        }
    }
```

Interface graphique




```java
    Label lblMotDePasse = new Label(shlSeConnecter, SWT.NONE);
    lblMotDePasse.setText("Mot de passe");
    lblMotDePasse.setFont(SWTResourceManager.getFont("Arial", 20, SWT.NORMAL));
    lblMotDePasse.setAlignment(SWT.CENTER);
    lblMotDePasse.setBounds(106, 232, 129, 29);

    mdp = new Text(shlSeConnecter, SWT.BORDER | SWT.PASSWORD);
    mdp.setBounds(253, 237, 300, 20);

    Button btnSeConnecter = new Button(shlSeConnecter, SWT.NONE);
    btnSeConnecter.addMouseListener(new MouseAdapter() {
        @Override
        public void mouseUp(MouseEvent e) {
            if (Login()) {//if connection success
                ChangeWindow();
                MenuPrincipal window = new MenuPrincipal(myco);
                window.open();
            }
            else {
                System.out.println("connexion impossible : adresse mail ou mot de passe incorrect");
                //TODO : afficher un message d'erreur du type (creation impossible car...)
            }
        }
    });
    btnSeConnecter.setBounds(289, 368, 120, 27);
    btnSeConnecter.setText("Se connecter");

}

protected boolean Login() {
    return myco.CheckEmailAndMDP(email.getText(), mdp.getText());
}
```

Bilan du projet