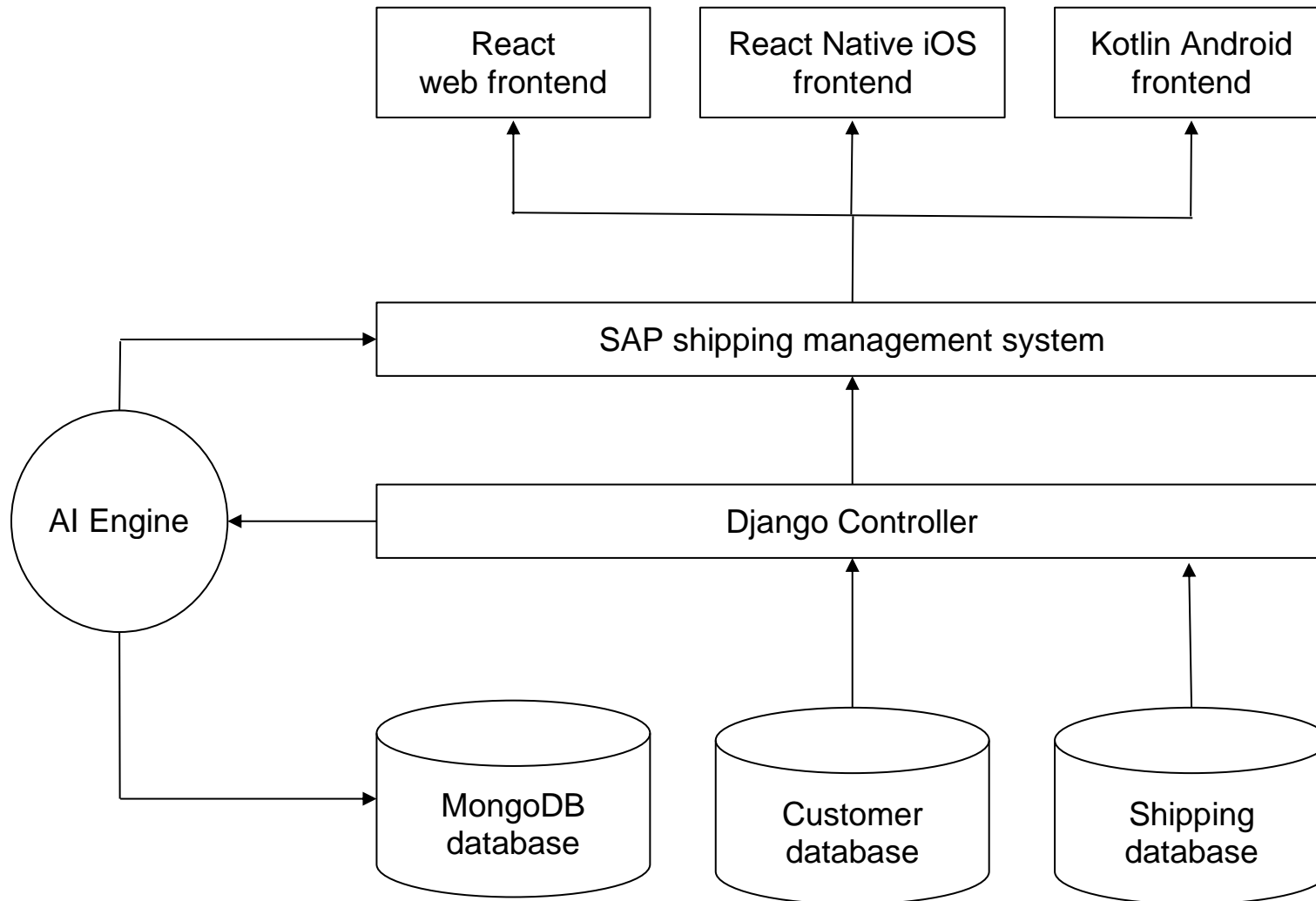


Technology Architecture



Technology Architecture Key

- **MongoDB database:** MongoDB is a specific style of database that allows you to store unstructured documents, instead of structured rows of data. This MongoDB database is used to store trained machine learning models, their metadata and the parameters used within these models.
- **Customer database:** This is a traditional relational database that stores information about all of LogisticAI's customers.
- **Shipping database:** This is a traditional relational database that stores information about shipping routes, historical journeys, scheduled shipping journeys and shipping alerts.
- **Django controller:** Django is an open-source Python backend application framework that allows you to create and scale applications with a strong focus on security and reliability. This Django controller communicates with the databases and processes data to make it available to other parts of the system through API's.
- **AI engine:** The AI engine is a collection of serverless functions deployed on Amazon Web Services that are used to enhance the features of the system with artificial intelligence. These functions are written in Python and use a mixture of deep learning and statistical methods. The primary use of these functions is the optimisation of shipping routes using data provided by the Django controller.
- **SAP shipping management system:** This is an SAP system that sits on top of our backend Django controller and AI engine. Using data from both components, the SAP shipping management system ensures that information from the controller and the AI engine gets allocated to the right ships and clients at the right time through the use of SAP's proprietary management and scheduling technology. The SAP shipping management system connects LogisticAI's data to the shipping world.
- **React web frontend:** React is a Javascript framework used for frontend development of web applications. React is used to create the web application user interface for clients.
- **React Native IOS frontend:** React Native iOS is a Javascript framework used for frontend development of native iOS mobile applications. React Native is used to create the iOS user interface for clients.
- **Kotlin Android frontend:** Kotlin is a programming language used for the development of Android apps. Kotlin is used to create the Android mobile app user interface for clients.