**Industry:** **Retail & E-Commerce**  
**Company:** **FastTrack Retail (Fictional)**  
**Software/System:** **SAP ERP for Supply Chain Management**  
**Group Members:** 5 Students  
**Duration:** 11 Weeks

**📅 Weekly Deliverables and Sample Solutions**

**Week 1: Team Formation & Topic Allocation**

📌 **Deliverable:**

* Team assigned to **FastTrack Retail – SAP ERP Implementation**.
* Initial research on **company's supply chain challenges**.

🎯 **Sample Solution:**  
FastTrack Retail is an e-commerce company specializing in **fast delivery services**. Due to **poor inventory visibility** and **manual order processing**, they face frequent **delays and stockouts**. Implementing **SAP ERP** can automate **inventory tracking, supplier management, and demand forecasting**.

**Week 2: Research on Industry Best Practices**

📌 **Deliverable:**

* Investigate **best practices in retail supply chain management**.
* Research **challenges in inventory and order fulfillment**.

🎯 **Sample Solution:**

* **Best Practices:**
  + **Real-time inventory tracking** for faster order fulfillment.
  + **Automated procurement systems** to reduce delays.
  + **AI-driven demand forecasting** for accurate stock levels.
* **Challenges Identified:**
  + **Stock mismatches** due to manual tracking.
  + **Delayed shipments** due to **poor supplier coordination**.

**Week 3: IT Infrastructure & Software Analysis**

📌 **Deliverable:**

* Map **current IT setup** at FastTrack Retail.
* Identify inefficiencies in **inventory & order processing**.

🎯 **Sample Solution:**

* **Current IT System:**
  + **Legacy inventory software (not integrated with warehouses).**
  + **Manual purchase order tracking via spreadsheets.**
* **Identified Issues:**
  + **No real-time stock updates** → **Overstock or understock risks.**
  + **High supplier lead time** → **Delays in order fulfillment.**

**Week 4: Risk Assessment & Security Concerns**

📌 **Deliverable:**

* Identify risks related to **supply chain IT systems**.
* Assess vulnerabilities in **data handling & vendor management**.

🎯 **Sample Solution:**

| **Risk** | **Level** | **Mitigation Strategy** |
| --- | --- | --- |
| **Data Breach in Supplier Portal** | High | Implement **secure user authentication** |
| **Inventory Mismatch** | Medium | **Automate stock tracking using IoT sensors** |
| **System Downtime** | High | Deploy **cloud-based ERP for redundancy** |

**Week 5: Ethical & Legal Considerations**

📌 **Deliverable:**

* Research **data privacy laws** (GDPR, CCPA) in supply chain management.

🎯 **Sample Solution:**

* **Ethical Issues:**
  + Supplier **data privacy** risks.
  + **Unethical AI biases** in demand forecasting.
* **Legal Compliance:**
  + **GDPR:** Protecting customer order details.
  + **CCPA:** Ensuring compliance in **data sharing with vendors**.

**Week 6: IT Project Management & Software Development Lifecycle**

📌 **Deliverable:**

* Compare **Agile vs. Waterfall approaches** for ERP implementation.

🎯 **Sample Solution:**

* **Chosen Model: Agile Implementation**
  + **Sprints for ERP module deployment** (Inventory → Procurement → Finance).
  + **Early feedback from warehouse staff to refine features.**

**Week 7: Proposal for IT Improvements**

📌 **Deliverable:**

* Create an **ERP Implementation Proposal** with ROI.

🎯 **Sample Solution:**

* **Solution:** Implement SAP ERP for **end-to-end automation**.
* **ROI Analysis:**
  + **Reduce stock mismatches by 40%.**
  + **Automate 80% of order processing.**

**Week 8: Implementation Challenges & Change Management**

📌 **Deliverable:**

* Identify **challenges in employee adaptation** to ERP.
* Suggest **training & onboarding strategies**.

🎯 **Sample Solution:**

* **Challenges:**
  + Employees hesitant to switch from manual systems.
  + Lack of **ERP training** among warehouse staff.
* **Solutions:**
  + **Gamified training sessions** for ERP navigation.
  + **Live support for troubleshooting.**

**Week 9: System Testing & Performance Evaluation**

📌 **Deliverable:**

* Conduct **performance tests** for order processing speed.

🎯 **Sample Solution:**

* **Before ERP:** Orders took **12 hours to process**.
* **After ERP:** Processing time reduced to **3 hours**.

**Week 10: Report Compilation & Peer Review**

📌 **Deliverable:**

* **Finalize project report** with all findings.

🎯 **Sample Solution:**

* **Key Sections:**
  + **ERP Selection Justification.**
  + **Cost-benefit analysis.**
  + **Training & Employee Adoption Plan.**

**Week 11: Final Presentation**

📌 **Deliverable:**

* **Present findings using a case study approach.**

🎯 **Sample Solution:**

* **Live demo of ERP interface.**
* **Before vs. After comparison using real performance metrics.**