**MCA Projects**

**Full stack development projects:**

1. Collaborative document editor: Multiple users can edit the document simultaneously and cursor can be tracked.

Features:

* 1. User login and document access control
  2. Real time collaborative editing of text
  3. Live cursor and selection tracking of multiple users.
  4. Conflict resolution using OT or CRDT algorithms
  5. Document sharing with unique links.

1. Customer Support Dashboard: Enables real-time chat support between customers and agents with live ticket status updates

Features:

* 1. Agent and customer login
  2. Real time chat interface
  3. Ticket creation, assignment and tracking
  4. Notification of new tickets and messages
  5. Support agent availability status
  6. Search and filter tickets
  7. Chatbots with pre-defined answers for trained queries

1. Live Polling Application: Users can vote on questions and see live results updating instantly (Use Redis)

Features:

* 1. User login or anonymous voting with restrictions
  2. Creation and management of polls
  3. Real time vote count updates
  4. Multiple question types (Single choice, multiple choice)
  5. Poll expiration and result summaries

1. Social media feeds with live updates (Use Apache Kafka) :

Features:

* 1. User authentication and profiles
  2. Posting text, images and videos
  3. Real time updates of likes, comments and new posts
  4. Follow/Unfollow other users
  5. Notifications for interactions

1. Workplace Flexi Station Allocation and Finding App: A smart workplace app designed to help employees find, reserve, and navigate to available flexible workstations and meeting rooms in real-time, promoting efficient space utilization and a seamless hybrid work experience.

Features:

* 1. Real-Time Availability & Booking
  2. Interactive Office Map & Navigation
  3. Booking Management
  4. Employee Check-In & Usage Tracking
  5. Integration with Calendar & Teams