This week we discussed about:

1. W2D5: Transactions
   1. Spring and Transactions.
      1. Bean Managed Transactions and Container Managed Transactions.
      2. Global and Local Transactions
      3. Transaction Propagation: 7 options
      4. Spring Transaction: Annotations
   2. Spring and Hibernate: How to configure it.
   3. Spring and Hibernate Transactions:
      1. How to configure and work with them.
      2. TransacionalManager
   4. EntityManagerInViewFilter
2. W3D1: Spring MVC and Data
   1. Spring MVC: What it is. How to configure it.
      1. Front Controller pattern
      2. Request mapping: paths, parameters and headers…
      3. URI templates
      4. Data input and output
      5. Session: storing / retrieving.
      6. Session & Flash attributes
      7. Exception handling
   2. Spring Data: What it is
      1. DAOs aka Repositories: How to work with them.
      2. Custom methods.
3. W3D2: Security and Validation
   1. Spring Security:
      1. What it is. How to configure it
      2. Login / logout. How to customize it
      3. Taglib & CSRF. How to work with them in Spring Security
      4. Authentication providers. How to configure it.
      5. Method Security
   2. Validation
      1. What it is. What it does.
      2. Validation logic
      3. Validation annotations
      4. Programmatic validation
      5. Spring MVC integration: How to configure validation. Spring Form tags
4. W3D3: Spring Boot and REST
   1. Spring Boot: What it is (for). How to start and configure it.
   2. REST:
      1. Web service, HTTP methods, JSON, Spring MVC, ResponseEntity
      2. Receiving / sending JSON, JSON annotations
      3. Receiving / sending XML
      4. Spring RestTemplate
5. W3D4: Messaging and Integration
   1. Messaging
      1. What it is.
      2. What middleware is.
      3. PTP or Pub/Sub
      4. Spring JMS template
      5. Spring RabbitMQ: What RabbitMQ is. How it works. How to configure it.
      6. RabbitMQ exchanges: exchange types and rules
   2. Spring Integration: What it is
   3. Pipes: What it is. What a channel is
   4. Endpoints: What types are.
      1. Transformer and Filter
      2. Bridges and Routers
      3. Splitter and Aggregator
      4. Service Activators and Channel Adapters
   5. Adapters and Gateways
   6. Enterprise Service Bus and Micro Services
6. Single SCI point:
   1. Spring and its various modules (MVC, Boot, Data, Security, Messaging, Integration…) work together as an integrated framework to create robust, scalable, and coherent software systems. A conscious mind works similarly as an integrated system. Each “module” of consciousness such as attention, memory, emotions, intuition, and rationality, they functions in harmony to support a holistic experience of awareness and action like an unified field/universe.