HIGH LEVEL DESIGN DOCUMENT OF DIGITAL SIGNATURES FOR MOBILE USERS (Server)

Controller

Classes

1. TrustCodeVerification

2. SignatureController

3. UserController

4. CertificateController

5. DocumentController

Controller Interface

1. SocketStringConstants

Socket classes

1. Server

2. ClientThread

3. SocketMessageType

4. SocketMessage

5. SignatureCreationRequest

6. Request

7. KeysValidationRequest

8. FileUploadRequest

9. CosignerValidationRequest

10. CertificateCreationRequest

Model: JAVA classes

Bean classes

1. UserBean

2. DocumentBean

3. DigitalSignatureBean

4. CertificateBean

5. RevokedCertificateBean

Business classes

1. UserBiz

2. DigitalSignatureBiz

3. CertificateBiz

4. DocumentBiz

5. CertificateManager

6. SignatureManager

Classes for JDBC connections

1. Command

2. ConnectionDB

3. Persistence

4. CmdCreateCertificate

5. CmdCreateRevokedCertificate

6. CmdRetrieveCertificate

7. CmdRetrieveMaxCertId

8. CmdRetrieveRevokedCertificate

9. CmdRetrieveUser

10. CmdUpdateUserCertStatus

11. CmdCreateDigitalSignature

12. CmdRetrieveDigitalSignature

13. CmdUpdateSignatureParameters

14. CmdValidateCoSigner

15. CmdCreateDocument

16. CmdRemoveDocument

17. CmdRetrieveDocument

18. CmdRetrieveMaxTrustCode

19. CmdCreateUser

20. CmdRetrieveMaxUserId

21. CmdRetrieveUser

22. CmdUpdateUserCertStatus

Classes that define datatypes

1. Address

2. CertificateId

3. EmailAddress

4. PhoneNumber

5. RevocationId

6. Row

7. SignatureFile

8. TrustCode

9. UserId

Exception classes

1. DatabaseException

2. InvalidInputException

Util classes

1. BCRSAPrivateCrtKey

2. BCRSAPrivateKey

3. BCRSAPublicKey

4. BigIntegerMath

5. DigSigMobServerUtils

6. EmailProvider

7. HttpConnection

8. KeyStoreProvider

9. SMSProvider

Util Interface
Messages

Database (mySQL) Tables
1. tbl_UserDetails

2. tbl_DocumentDetails

3. tbl_DigitalSignatureDetails

4. tbl_CertificateDetails

5. tbl_RevokedCertificateDetails