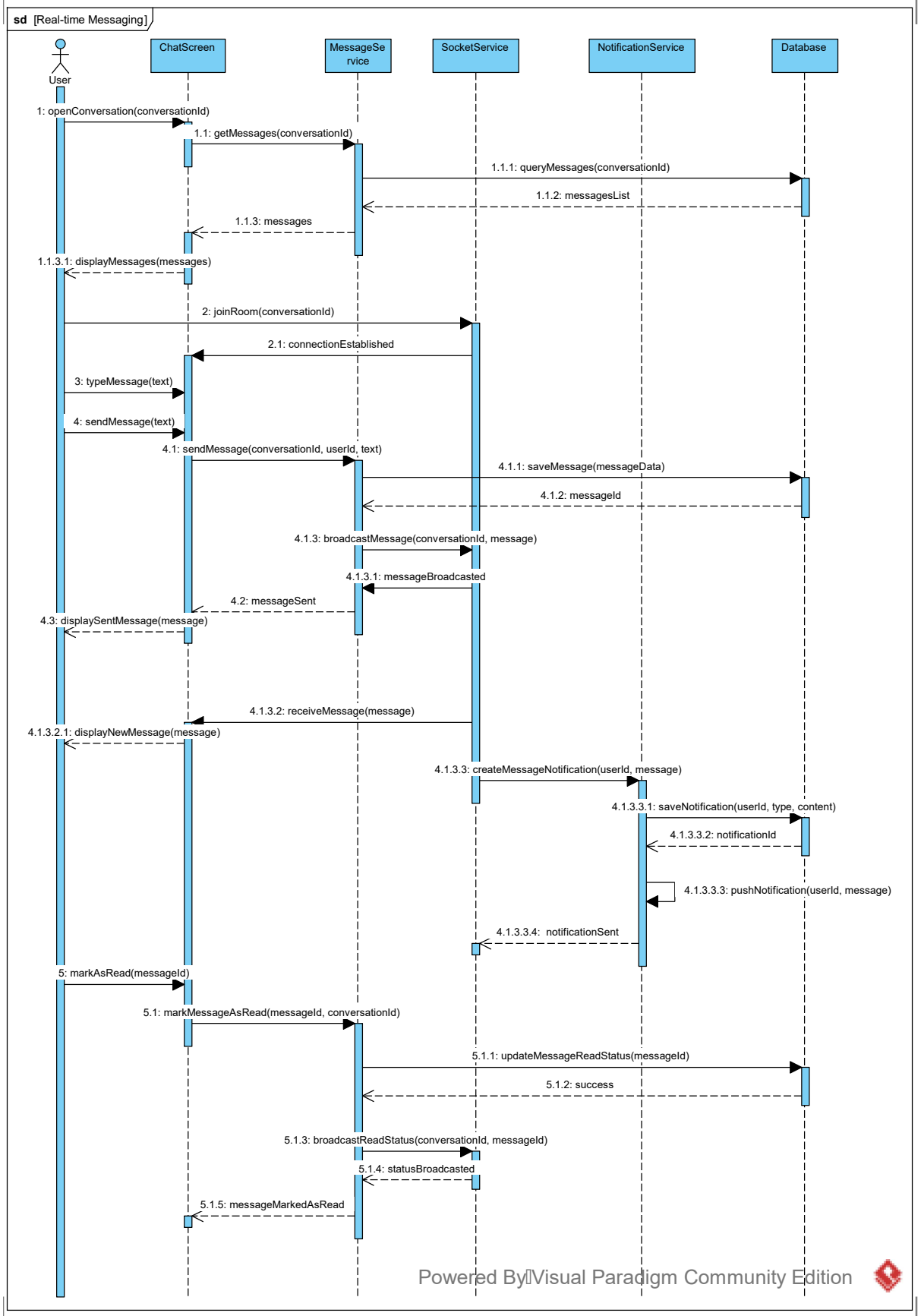
sd [Real-time Messaging]
User
ChatScreen
MessageService
SocketService
NotificationService
Database
1: openConversation(conversationId)
1.1: getMessages(conversationId)
1.1.1: queryMessages(conversationId)
1.1.2: messagesList
1.1.3: messages
1.1.3.1: displayMessages(messages)
2: joinRoom(conversationId)
2.1: connectionEstablished
3: typeMessage(text)
4: sendMessage(text)
4.1: sendMessage(conversationId, userId, text)
4.1.1: saveMessage(messageData)
4.1.2: messageId
4.1.3: broadcastMessage(conversationId, message)
4.1.3.1: messageBroadcasted
4.2: messageSent
4.3: displaySentMessage(message)
4.1.3.2: receiveMessage(message)
4.1.3.2.1: displayNewMessage(message)
4.1.3.3: createMessageNotification(userId, message)
4.1.3.3.1: saveNotification(userId, type, content)
4.1.3.3.2: notificationId
4.1.3.3.3: pushNotification(userId, message)
4.1.3.3.4: notificationSent
5: markAsRead(messageId)
5.1: markMessageAsRead(messageId, conversationId)
5.1.1: updateMessageReadStatus(messageId)
5.1.2: success
5.1.3: broadcastReadStatus(conversationId, messageId)
5.1.4: statusBroadcasted
5.1.5: messageMarkedAsRead
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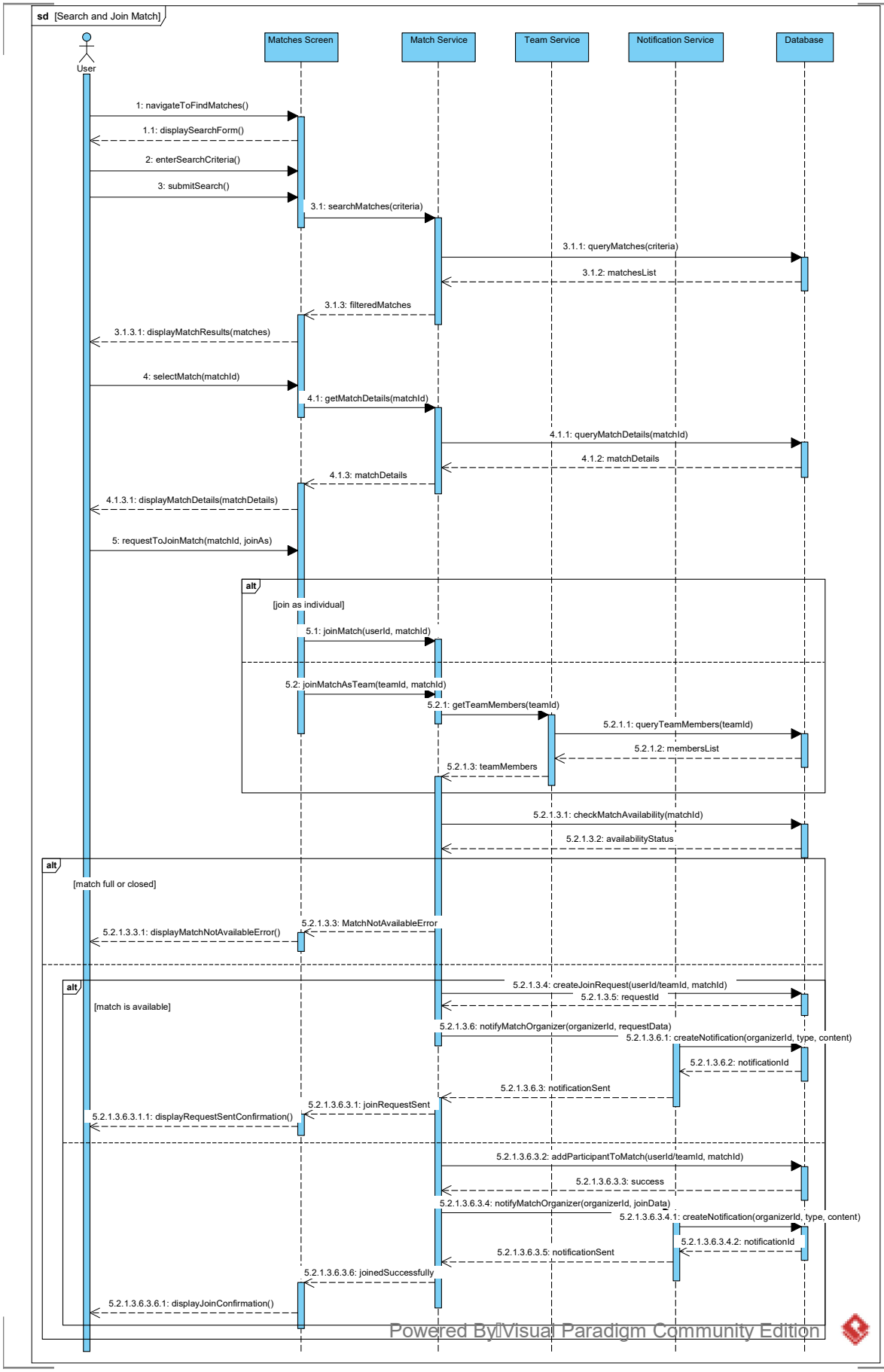

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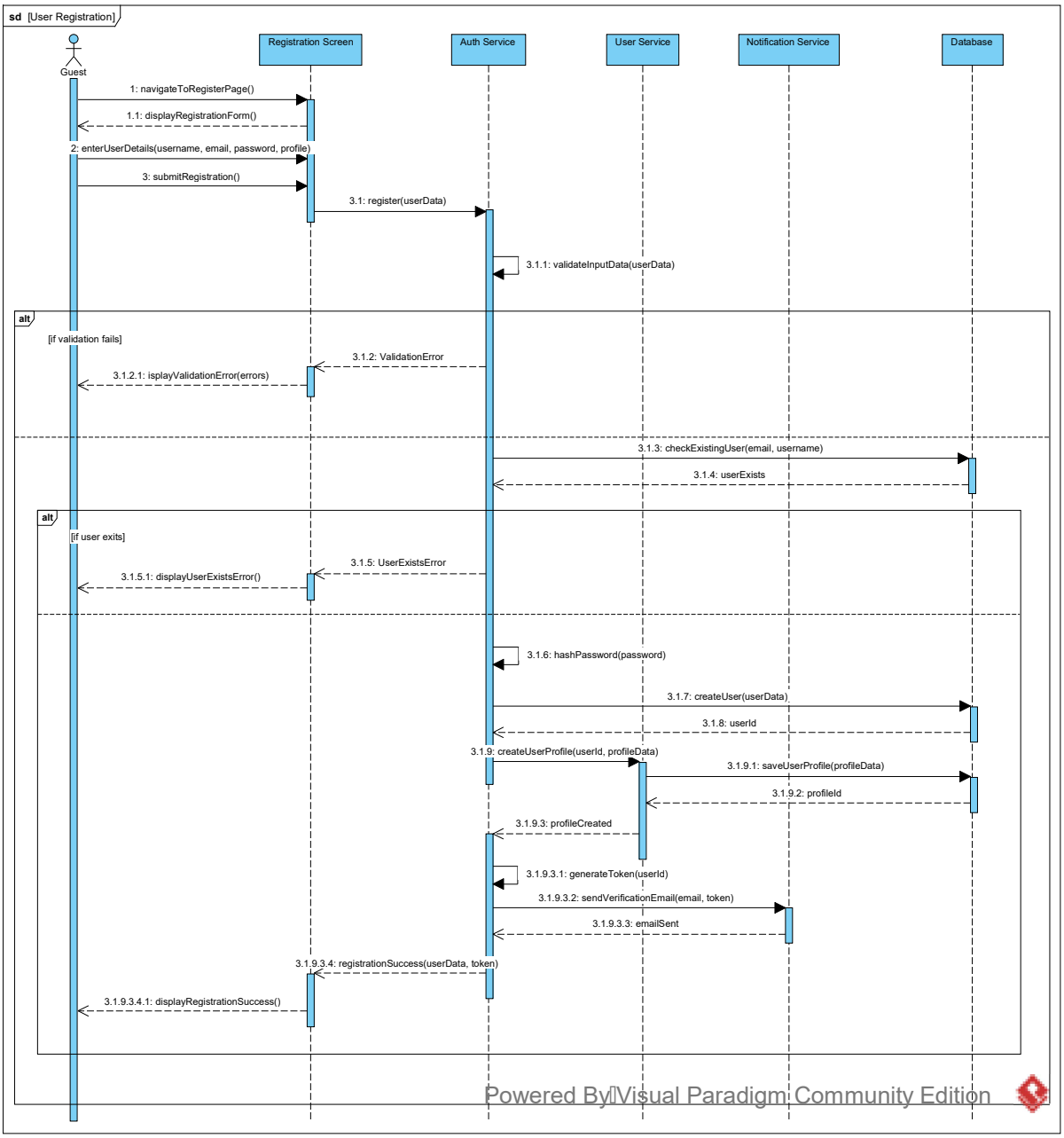
sd [User Registration]
Guest
Registration Screen
Auth Service
User Service
Notification Service
Database
1: navigateToRegisterPage()
1.1: displayRegistrationForm()
2: enterUserDetails(username, email, password, profile)
3: submitRegistration()
3.1: register(userData)
3.1.1: validateInputData(userData)
alt
[if validation fails]
3.1.2: ValidationError
3.1.2.1: isplayValidationError(errors)
3.1.3: checkExistingUser(email, username)
3.1.4: userExists
alt
[if user exits]
3.1.5: UserExistsError
3.1.5.1: displayUserExistsError()
3.1.6: hashPassword(password)
3.1.7: createUser(userData)
3.1.8: userId
3.1.9: createUserProfile(userId, profileData)
3.1.9.1: saveUserProfile(profileData)
3.1.9.2: profileId
3.1.9.3: profileCreated
3.1.9.3.1: generateToken(userId)
3.1.9.3.2: sendVerificationEmail(email, token)
3.1.9.3.3: emailSent
3.1.9.3.4: registrationSuccess(userData, token)
3.1.9.3.4.1: displayRegistrationSuccess()
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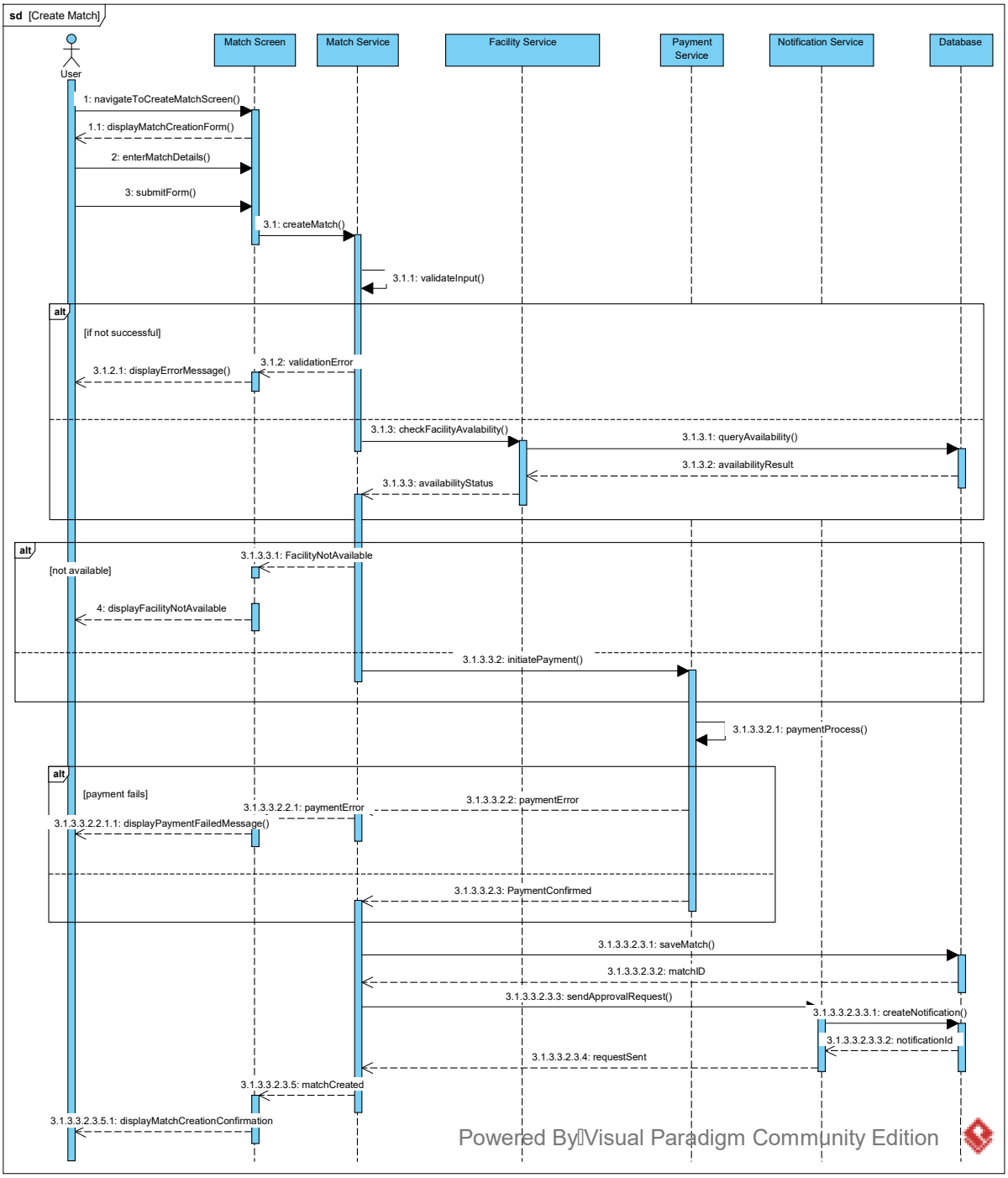
sd [Create Match]
User
Match Screen
Match Service
Facility Service
Payment Service
Notification Service
Database
1: navigateToCreateMatchScreen()
1.1: displayMatchCreationForm()
2: enterMatchDetails()
3: submitForm()
3.1: createMatch()
3.1.1: validateInput()
alt
[if not successful]
3.1.2: validationError
3.1.2.1: displayErrorMessage()
3.1.3: checkFacilityAvalability()
3.1.3.1: queryAvailability()
3.1.3.2: availabilityResult
3.1.3.3: availabilityStatus
alt
[not available]
3.1.3.3.1: FacilityNotAvailable
4: displayFacilityNotAvailable
3.1.3.3.2: initiatePayment()
3.1.3.3.2.1: paymentProcess()
alt
[payment fails]
3.1.3.3.2.2: paymentError
3.1.3.3.2.2.1: paymentError
3.1.3.3.2.2.1.1: displayPaymentFailedMessage()
3.1.3.3.2.3: PaymentConfirmed
3.1.3.3.2.3.1: saveMatch()
3.1.3.3.2.3.2: matchID
3.1.3.3.2.3.3: sendApprovalRequest()
3.1.3.3.2.3.3.1: createNotification()
3.1.3.3.2.3.3.2: notificationId
3.1.3.3.2.3.4: requestSent
3.1.3.3.2.3.5: matchCreated
3.1.3.3.2.3.5.1: displayMatchCreationConfirmation
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