

IN2013 Coursework

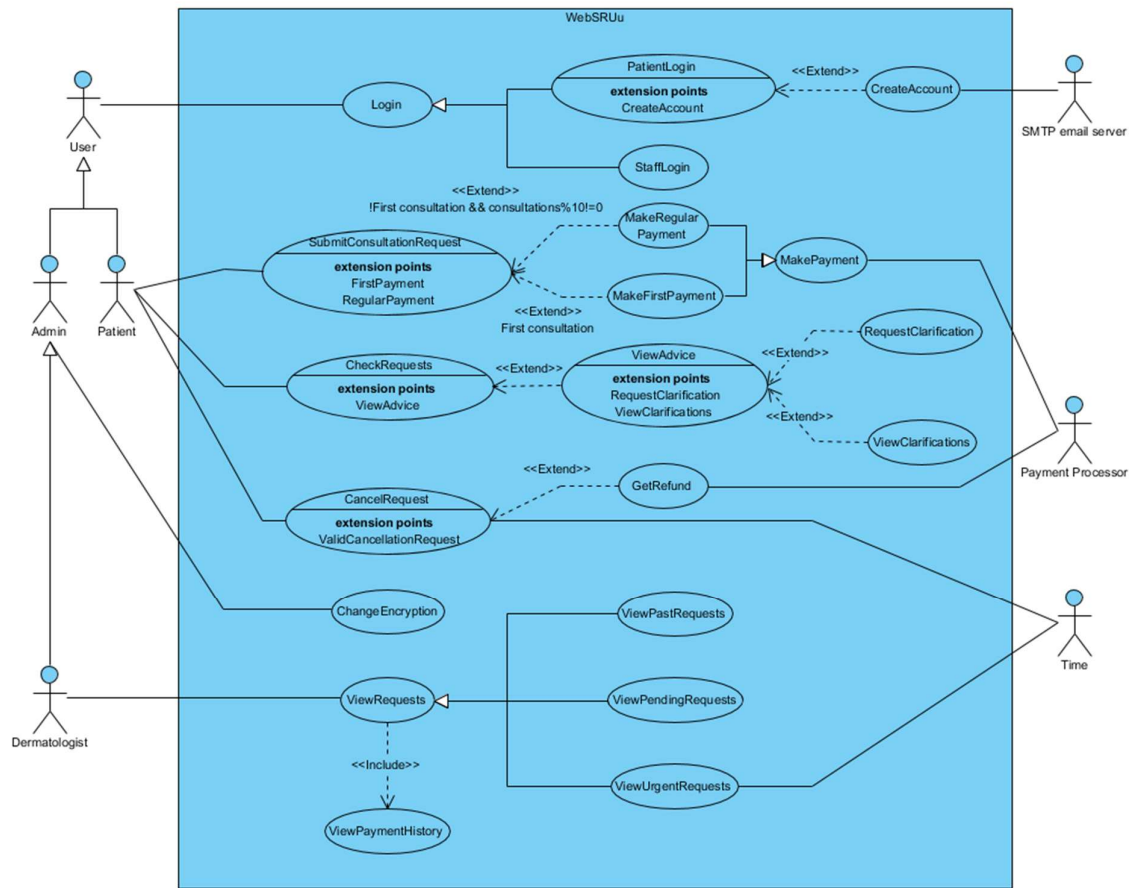
James Brown (170006469)

Question 1)

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| Requirement ID: 1 | Requirement Type: FR | Event/Use Case #2 (ViewNewRequests) |
| Description: The product shall identify all unanswered consultation requests made by a patient | | |
| Rationale: Dermatologists need to know what requests have yet to be answered | | |
| Source: WebSRU initial statement of requirements by SkinsRUs | | |
| Fit Criteria: Unanswered consultation requests are those where the consultation request and any further clarification requests have yet to be answered | | |
| Customer Satisfaction: 5 | Customer Dissatisfaction: 5 | |
| Priority: Essential | Conflicts: None | |
| Supporting Material: WebSRU initial statement of requirements by SkinsRUs | | Volere Source: Atlantic Systems Guild |
| History: November 1, 2019 Passed Quality Gateway review | | |

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|---|-----------------------------|--|
| Requirement ID: 2 | Requirement Type: NFR | Event/Use Case N/A |
| Description: The system shall be secure | | |
| Rationale: WebSRU contains sensitive personal information. | | |
| Source: WebSRU initial statement of requirements by SkinsRUs and UK Data Protection Act 2018 (and other relevant legislation) | | |
| Fit Criteria: The development and use of the system is compliant with relevant legal and legislative frameworks | | |
| Customer Satisfaction: 3 | Customer Dissatisfaction: 4 | |
| Priority: Highly Important | Conflicts: None | |
| Supporting Material: WebSRU initial statement of requirements by SkinsRUs, Relevant UK regulations | | Volere Source: Atlantic Systems Guild |
| History: November 1, 2019 Passed Quality Gateway review | | |

Question 2)



Question 3)

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| Use case: SubmitConsultationRequest |
| ID: 1 |
| Brief description: Request a new consultation, including textual description and image of skin condition. |
| Primary actors: Patient |
| Secondary actors: N/A |
| Preconditions: 1. A valid user is logged in 2. User is registered as a patient |
| Main flow: 1. The use case begins when the patient selects "Submit Consultation Request" 2. WHILE the Patient's request details have not been entered 2.1. The system asks the patient to add a textual description of their condition and attach a photo of the affected area 2.2. The system validates the patient's request Extension point: firstPayment Extension point: regularPayment 3. The system gives the consultation a unique ID 4. The patient's consultation request is added to the server |
| Postconditions: 1. A consultation request has been made and added to the server |
| Alternative flows: TextDescriptionMissing ImageMissing Cancel |

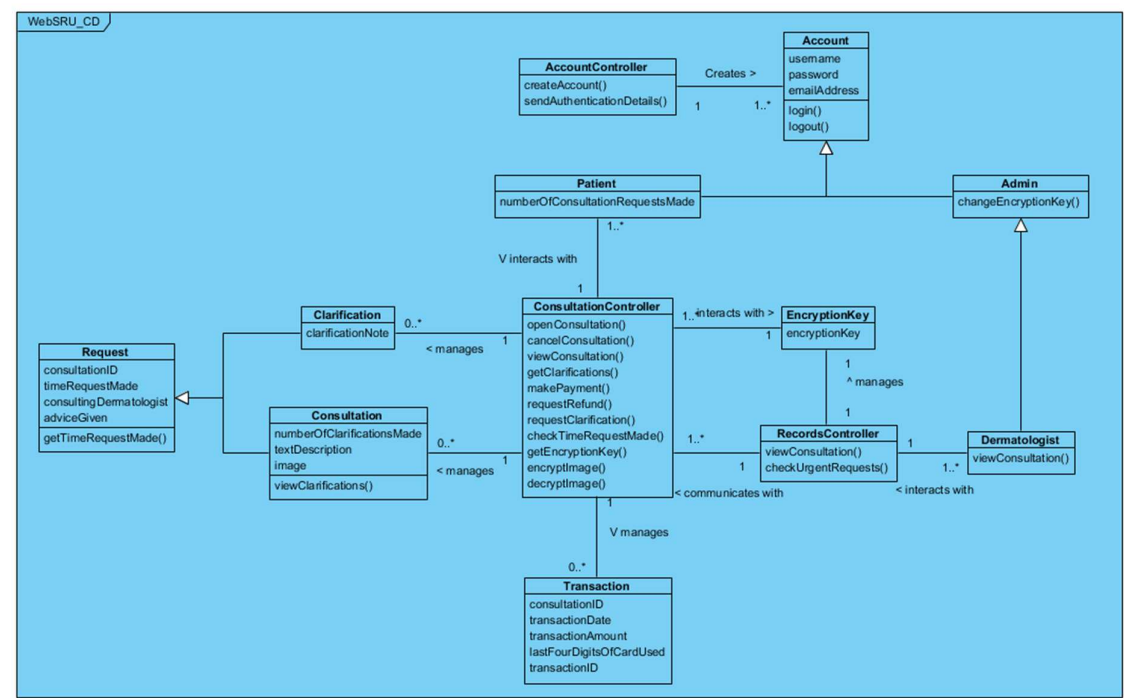
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|---|
| Alternative flow: SubmitConsultationRequest:TextDescriptionMissing |
| ID: 1.1 |
| Brief description: The system informs the patient they are lacking a textual description of their condition |
| Primary actors: Patient |
| Secondary actors: N/A |
| Preconditions: 1. The patient has not entered a text description of their condition |
| Alternative flow: 1. The alternative flow begins after step 2.2. of the main flow 2. The system informs the patient that they have not entered a textual description of their condition |
| Postconditions: N/A |

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|---|
| Alternative flow: SubmitConsultationRequest:ImageMissing |
| ID: 1.2 |
| Brief description: The system informs the patient they have not attached an image of their condition |
| Primary actors: Patient |
| Secondary actors: N/A |
| Preconditions: 1. The patient has not submitted a photo of their condition |
| Alternative flow: 1. The alternative flow begins after step 2.2 of the main flow 2. The system informs the patient that they have not submitted an image of their condition |
| Postconditions: N/A |

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| Alternative flow: SubmitConsulatationRequest:Cancel |
| ID: 1.3 |
| Brief description: The patient cancels their submission and exits the consultation request page |
| Primary actors: Patient |
| Secondary actors: N/A |
| Preconditions: 1. The patient has selected "cancel request" |
| Alternative flow: 1. The alternative flow begins during the while loop in step 2 2. The system exits the Consultation Request page |
| Postconditions: 1. The patient is no longer on the Consultation Request page |

Question 4)

a)



b.1)

| Noun | Verb |
|------------------------|---------|
| Dermatologists | Login |
| Patient records | Decrypt |
| Consultation requests | |
| Clarification requests | |
| Images | |
| Encryption key | |

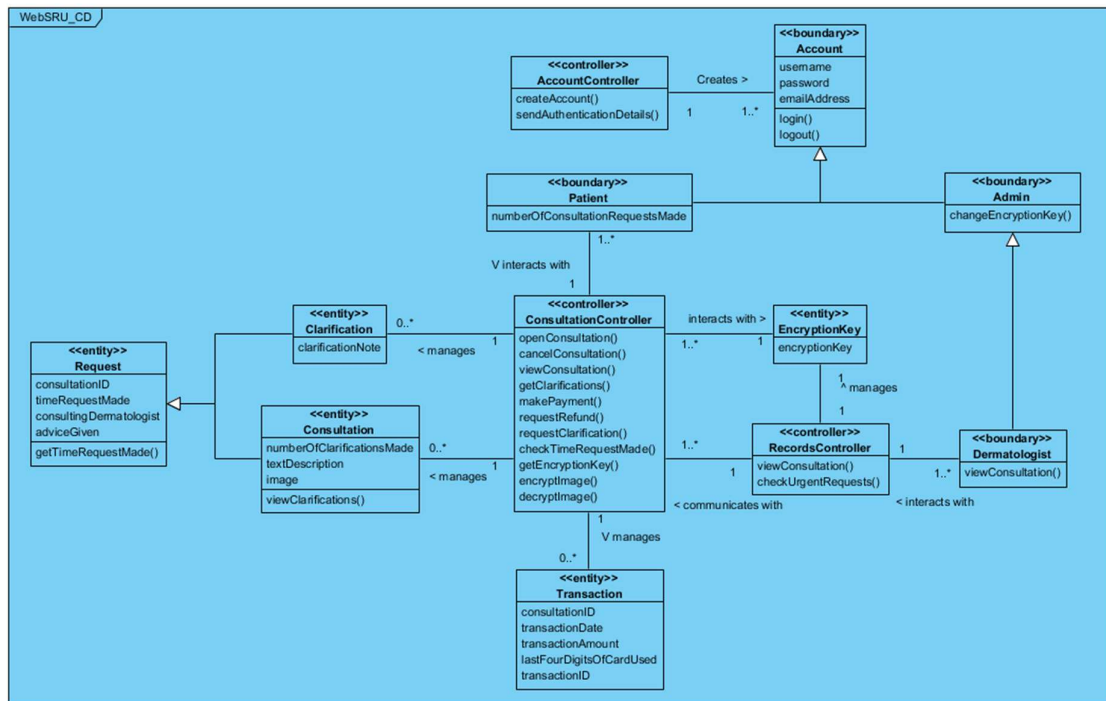
b.2)

| Transaction | |
|--|--|
| Description: A record of a transaction that has been made | |
| Attributes: | |
| Name | Description |
| consultationID | Connects the transaction to its relevant consultation request |
| transactionDate | The date and time the transaction took place |
| transactionAmount | The amount the transaction was for |
| lastFourDigitsOfCardUsed | The last for digits of the card used in the transaction |
| transactionID | A unique identifier given by the payment processor for if the patient wants a refund |
| Responsibilities: | |
| Name | Collaborator |
| Provide transaction ID | Patient |
| Provide transaction details | Dermatologist |

| Consultation | |
|---|---|
| Description: A consultation request made by a patient. | |
| Attributes: | |
| Name | Description |
| consultationID | A unique numeric identifier |
| timeRequestMade | The time the request was made |
| consultingDermatologist | The dermatologist providing advice |
| numberOfClarificationsMade | The number of clarifications associated with the consultation |
| textDescription | A description of the patient's skin condition |
| image | A picture of the patient's skin condition |
| adviceGiven | The advice given by the dermatologist |
| Responsibilities: | |
| Name | Collaborator |
| Get the time a request was made | |
| View associated clarification requests | Clarification |

| Patient | |
|---|---|
| Description: An individual who is requesting, or has already requested, advice on a skin condition | |
| Attributes: | |
| Name | Description |
| username | Unique identifier for account authentication |
| password | A secret identifier for account authentication |
| emailAddress | A contact email address |
| numberOfConsultationRequestsMade | A number to track when they are eligible for a discount |
| Responsibilities: | |
| Name | Collaborator |
| Login | |
| Logout | |
| Open consultation | Consultation |
| Cancel consultation | Consultation |
| Ask for clarification | Clarification |
| Pay for consultation | Transaction |
| Request a refund | Transaction |

b.3)



Question 5)

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