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|  | **Functional Requirements** | |
| R1 | Referring physician is able to access RIS and place order for procedure | This requirement is met when the referring physician is able to add a patient and request a specific operation, using the RIS. |
| R2 | RIS is able to display worklist | This requirement is met when the technician, radiologist, and administrative assistant can all view a list that contains detailed appointment data. This data must include patient name, technician assigned, and status of the patient. |
| R3 | Actor is able to schedule appointment | This requirement is met when an administrative assistant can view a list of currently scheduled appointments and schedule a new appointment for a specific patient. |
| R4 | RIS is able to acquire an image for a patient | This requirement is met when the technician can upload a picture taken from radiology modality during the imaging process. |
| R5 | Radiologist can respond to patient images | This requirement is met when the radiologist is able to view the image uploaded by the technician, as well as the full tech entry. |
| R6 | Store technician info | This requirement is met when employees can use the RIS to input their schedules into a database. They must be able to schedule both time and day. |
| R7 | Store patient information | This requirement is met when the RIS is able to intake, store, and display patient information. There must be a unique ID regarding each patient and the patient information must be able to be viewed by the technician, radiologist, and administrative assistant. |
| R8 | Require Electronic Signature | This requirement is met when the radiologist is able to provide his credentials during the report review process to verify identity and submit report. |
| R9 | Radiologist is able to review image retrieved from database | This requirement is met when a radiologist is able to access images associated with current and previous appointments. This must be searchable by patient in order to develop a patient history. |
| R10 | Store procedure status | This requirement is met when the status of patient can be changed and viewed throughout the imaging appointment. This must be displayed on the worklist and must at a minimum display whether or not a patient is checked in. |
| R11 | Store images | This requirement is met when the RIS is able to store images taken during the imaging process. The images must be accessible and have a unique image ID |
| R12 | Store modality availability | This requirement is met when the RIS is able to track and display when each modality is available. This must be implemented into the scheduling process. |
| R13 | CRUD Reports (Radiologist) | This requirement is met when the radiologist is able to create a report based on the tech entry. The radiologist must also be able to update and delete a report. |
| R14 | Automatically retrieve demographic information and RP information | This requirement is met when the patient information displayed for each patient includes name, gender, vitals, and referring physician name. This must be readable each time the patient’s profile is accessed. |
| R15 | RIS and PACS pull pictures, reports, and patient information properly | This requirement is met when the RIS is able to access the pictures, reports, and patient information as long as the employee has access to the information. |
| R16 | See previous exams | This requirement is met when there is an archive of files including previous completed reports. The reports must include the tech entry, patient information, and radiologist report document. |

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|  | **Non-Functional Requirements** | |
| NR1 | StarUML is used to create Use Case diagrams | This requirement is met when there is an accurate and detailed use case diagram that has be created using the “Star UML” software. |
| NR2 | StarUML is used for Database design | This requirement is met when there is an accurate and detailed database model that has be created using the “Star UML” software. |
| NR3 | Coded in Java | This requirement is met when the main coding language used is Java. If any other languages are used, they must be compatible with Java language. |
| NR4 | User login code used RegEx | This requirement is met when the login function uses the RegEx interface. |
| NR5 | RIS must avoid scheduling conflicts | This requirement is met when the RIS does not allow modality or a technician to be double booked. |
| NR6 | Database accepts SQL commands | This requirement is met when the database can be accessed and updated through SQL commands run from the Java models. |