

**Nota: Por efectos de legibilidad En los RF se omitió la escritura de algunos parámetros en los métodos**

| Requerimiento F/N Funcional                     | Método Utilizado   | Clase   |
|---|--|---|
| RF1: Crear un clan                              | 1 createNewClan()<br>1 validateAvailabilityOfTheName(name);  | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF2: Mostrar clanes                             | 1 +showClans():String<br>2 +toString():String  | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF3: Actualizar información a un clan ya creado | 1 +changeClanName(String name):String<br>2 +searchClan(name):String<br>1 +validateAvailabilityOfTheName(name):String   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF4: Borrar un clan creado anteriormente        | 1 +deleteClan(String name):String<br>2 +toString():String;<br>2 + getName():String   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF5: Crear un personaje y añadirlo a un clan    | 1 +searchClanToAddCharacter():String<br>1 +searchClan(name):Clan<br>2 +addCharacterToTheList():void<br>2 -validateAvaibleNameForCharacter(name):void<br>3 +getNext():NarutoCharacter<br>3 +setPrevius(newReference):void | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF6: Mostrar personajes de un clan              | 1 +organizeListOfCharacters():String<br>1 -searchClan(String name):Clan<br>1 +showCharactersInAClan():String<br>2 +organizeListWithBubble():void<br>2 +showCharacters():String   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |

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| RF7: Modificar atributos a un personaje          | 1 +changeCharacterAtributes():String<br>1 -searchClan(clanName):Clan<br>2 +changeCharacterInfo():String<br>2 -searchNarutoCharacter(currentName):NarutoCharacter<br>2 -validateAvaiableNameForCharacter(newCharacterName):void<br>3 +toString():String<br>3 +setName(newCharacterName):void<br>3 +setPersonality(personality):void<br>3 +setPowerAbility(powerAbility):void<br>3 +setCreationDate(creationDate):void | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF8: Eliminar un personaje                       | 1 +deleteCharacter():String<br>1 -searchClan(clanName):Clan<br>2 +deleteCharacterOfTheList(name):String<br>3 +toString():String<br>3 +getPrevius():NarutoCharacter<br>3 +getNext():NarutoCharacter<br>3 +setPrevius():void<br>3 +setNext():void  | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF9: Crear una técnica y añadirla a un personaje | 1 +addTechniquetoAcharacter:String<br>1 -searchClan(clanName):Clan<br>2 +addTechniquetoACharacter():String<br>2 -searchNarutoCharacter(characterName):NarutoCharacter<br>2 +toString():String<br>3 +addTechniqueToTheList():void<br>3 +createTechnique():Technique<br>4 +getNext():Technique   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF10: Mostrar técnicas                           | 1 +showCharacterTechniques():String<br>2 -searchClan(clanName):Clan<br>2 +showCharacterTechniques():String<br>2 -searchNarutoCharacter(characterName):NarutoCharacter<br>3 +showCharacterTechniques():String<br>4 +toString():String<br>4 +getNext():Technique   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RF11: Eliminar una técnica                       | 1 +deleteCharacterTechnique():String<br>1 -searchClan(clanName):Clan<br>2 +deleteCharacterTechnique():String<br>2 -searchNarutoCharacter(characterName):NarutoCharacter<br>3 +generalDeleteOfTechnique(characterTechnique):String<br>3 +deleteWhennextAreNotNull(name):void<br>3 +deleteWhennextAreNull(name):void<br>4 +toString():String<br>4 +getNext():Technique   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |

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| RNF 1: Utilizar el método de ordenamiento clásico burbuja   | 2 +organizeListWithBubble():void                           | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 2: Utilizar el método de ordenamiento clásico inserción | 3 +organizeTechniques():void                               | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 3: Utilizar el método de ordenamiento clásico selección | 1 +organizeWithSlecClans():void                            | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 4: Buscar datos de manera secuencial                    | <i>Todas las búsquedas son hechas de manera secuencial</i> | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 5: Implementar la interfaz Comparable                   |  | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |

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| RNF 6: Implementar la interfaz Comparator   | <i>La interfaz comparator se implementa en la clase "Clan"</i>                                      | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 7: Ordenar las técnicas ascendentemente   | 2 +organizeListWithBubble():void<br>3 +organizeTechniques():void<br>1 +organizeWithSlecClans():void | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 8: El nombre del personaje no se debe repetir                                   | 2 -validateAvaiableNameForCharacter(String name):void   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 9 El nombre de la técnica no se debe repetir                                    | 3 -validateAvaiableNameForTechnique(String name):void   | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 10: Los personajes deben ser implementados usando una lista doblemente enlazada | <i>La lista doblemente enlazada se implementa en la clase "Clan"</i>                                | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |
| RNF 11: Las técnicas deben ser implementadas usando una lista enlazada sencilla     | <i>La lista sencilla se implementa en la clase "NarutoCharacter"</i>                                | 0. Main<br>1. University<br>2. Clan<br>3. NarutoCharacter<br>4. Technique |

