**IT313 Software Engineering**

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**Software Engineering Project Group 27 - SkyLynx**

**Equivalence Class Partitioning**

1. Table name : User

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| Sr No. | Validati on Case Index | Attribute Name | Description |
| 1 | VC1 | Email | email can’t be blank |
| 2 | VC2 | Email | Local part (before @) must be of atleast 1 character |
| 3 | VC3 | Email | Local part (before @) must be less than or equal to 64 characters |
| 4 | VC4 | Email | Local part (before @) contains alphanumeric characters and allows following special characters  ! # $ % & ' \* + - / = ? ^ \_ ` { | } ~ . |
| 5 | VC5 | Email | Local part cannot have two consecutive periods(.) |
| 6 | VC6 | Email | Local part must not start or end with period (.) |
| 7 | VC7 | Email | Local part (before @) must not contain following special characters 🡪  ( ) @ : ; < > \ “ , [ ] |
| 8 | VC8 | Email | Email can’t have space anywhere in it |
| 9 | VC9 | Email | Domain part (after @) must be of atleast 1 character |
| .. | VC10 | Email | Domain part (after @) must be less than 255 characters |
| 11 | VC11 | Email | Domain part (after @) must consist of one or more labels separated by periods (.). |
| 12 | VC12 | Email | Domain must end with a valid TLD(Top Level Domain) |
| 13 | VC13 | Email | Email address must have atleast one @ separating domain and local part in it |
| 14 | VC14 | Email | Each label must be 1 to 63 characters. |
| 15 | VC15 | Email | Only alphanumeric characters and hyphens (-) are allowed in Labels. |
| 16 | VC16 | Email | Labels cannot start or end with a hyphen. |
| 17 | VC17 | Password | Password must be of length greater than or equal to 4 and less than or equal to 100 |
| 18 | VC18 | Name | Name must be of length greater than or equal to 3 and less than or equal to 100 |
| 19 | VC19 | Phone Number | Phone number if not empty, must be a 10 digit number. |
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1. Table name : Passenger

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| Sr No. | Validatio n Case Index | Attribute Name | Description |
| 1 | VC9 | First Name | First Name can’t be blank |
| 2 | VC10 | First Name | First Name can’t be more than 255 characters |
| 3 | VC11 | First Name | First Name should contain only alphabets. |
| 4 | VC12 | Last Name | Last Name can’t be blank |
| 5 | VC13 | Last Name | Last Name can’t be more than 255 characters |
| 6 | VC14 | Last Name | Last Name should contain only alphabets. |
| 7 | VC15 | Phone Number | Phone Number can’t be blank |
| 8 | VC16 | Phone Number | Phone Number must be of 10 numerical digits |
| 9 | VC17 | Date of Birth | Date of Birth can’t be blank |
| 10 | VC18 | Date of Birth | Date of Birth can’t be ahead of current date |
| 11 | VC19 | Designation | Designation can’t be empty |

1. Table name : Card Details

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| Sr No. | Validatio n Case Index | Attribute Name | Description |
| 1 | VC20 | Credit Card Number | 16 digit number with formatted with spaces after 4 characters |
| 2 | VC21 | Expiry Date | Valid MM/YY format and valid month |
| 3 | VC22 | CVV | Must be 3 digit CVV |
| 4 | VC23 | Postal Code | Must be Valid 6 digit postal code |

1. Table name : UPI Details

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| Sr No. | Validatio n Case Index | Attribute Name | Description |
| 1 | VC24 | UPI ID | Upi Id can’t be blank |
| 2 | VC25 | UPI ID | Upi id should have non-empty local part and domain part separated by (@) |
| 3 | VC26 | UPI ID | UPI id should not contain special characters except(. and - ) in local part |
| 4 | VC27 | UPI ID | Consecutive use of . and – in upi id is invalid |