# HumaniSE Developer Interviews

## Codes

| Name | Description | Files | References |
|------|-------------|-------|-----------|
| **All Code Developers** | | 12 | 40 |
| App development life cycle (SDLC) | | 12 | 85 |
| Development and Coding | | 12 | 24 |
| Plan and Design | | 12 | 15 |
| Requirements gathering | | 12 | 18 |
| Review and Defect Reporting | | 12 | 16 |
| Testing | | 12 | 12 |
| Define eHealth App | | 4 | 4 |
| Example App and Its Description | | 12 | 51 |
| HCI challenges | | 2 | 3 |
| RQ1 Which HCIs | | 11 | 33 |

| Name | Description | Files | References |
|---|---|---|---|
| A. Essential HCIs ( high-level) | | 11 | 33 |
| Accessibility | | 4 | 6 |
| App versatility | | 0 | 0 |
| Other Issues | | 1 | 1 |
| Reliability | | 4 | 11 |
| Usability | | 6 | 9 |
| User Experience | | 6 | 6 |
| Comfort | | 3 | 3 |
| Incorrect Results | | 0 | 0 |
| User Versatility | | 0 | 0 |
| Age | | 1 | 1 |
| Elderly User | | 2 | 2 |
| Young User | | 1 | 1 |
| Cultural | | 2 | 2 |

| Name | Description | Files | References |
|---|---|---|---|
| Disability | | 0 | 0 |
| Gender | | 0 | 0 |
| Language | | 1 | 2 |
| Marginalised people | | 0 | 0 |
| Socioeconomic status | | 1 | 3 |
| Technologically challenged | | 2 | 9 |
| UX or UI challenges | | 1 | 3 |
| Vulnerable groups_patients | | 1 | 1 |
| Working conditions | | 2 | 5 |
| Software developers' and HC issues | | 0 | 0 |
| Differences between developers and users | | 0 | 0 |
| Ideas to help developers address HCI issues | | 0 | 0 |

| Name | Description | Files | References |
|---|---|---|---|
| Reasons why developers don't address HCI issues | | 0 | 0 |
| Solutions and Suggestions | | 0 | 0 |

## Codes\\Other Codes

| Name | Description | Files | References |
|---|---|---|---|
| age | | 12 | 29 |
| age group | | 2 | 2 |
| age people | | 2 | 2 |
| age range | | 1 | 1 |
| different ages | | 1 | 1 |
| diverse age | | 1 | 1 |
| end users age | | 2 | 3 |
| end-user age | | 12 | 12 |
| mid age | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| spatial age group | | 1 | 1 |
| ui age centric | | 1 | 1 |
| user age | | 3 | 4 |
| app | | 12 | 127 |
| android app | | 2 | 2 |
| app android app | | 1 | 1 |
| app coding | | 1 | 1 |
| app crashes | | 1 | 1 |
| app dashboard | | 1 | 1 |
| app designs | | 2 | 2 |
| app development industry | | 1 | 1 |
| app effectiveness | | 1 | 1 |
| app features | | 1 | 1 |
| app interface | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| app interface design | | 1 | 1 |
| app language | | 1 | 1 |
| app modeling | | 1 | 1 |
| app name | | 1 | 1 |
| app screen | | 1 | 1 |
| app testing | | 3 | 3 |
| app track | | 2 | 2 |
| app work | | 1 | 1 |
| bioscope app | | 1 | 1 |
| bkash app | | 1 | 1 |
| ehealth app development project | | 12 | 27 |
| e-health app development project | | 1 | 1 |
| existing app | | 1 | 1 |
| existing app look | | 1 | 1 |

| Name | Description | Files | References |
|------|-------------|-------|------------|
| fresh app environment | | 1 | 1 |
| hailing app | | 1 | 1 |
| health tracking app | | 1 | 1 |
| heavy data centric app | | 1 | 1 |
| insurance app | | 1 | 1 |
| local app | | 1 | 1 |
| location centric app | | 1 | 1 |
| looking app | | 1 | 1 |
| mobile app development | | 1 | 3 |
| mobile app development approaches | | 1 | 1 |
| mobile app development project | | 11 | 32 |
| mobile app development teams | | 9 | 19 |
| mobile health app | | 1 | 1 |
| particular app | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| personal assistant app | | 1 | 2 |
| popular app | | 1 | 1 |
| renting app | | 1 | 1 |
| streaming app | | 1 | 1 |
| streaming service app development | | 1 | 1 |
| telehealth app | | 1 | 1 |
| app development | | 12 | 85 |
| app development industry | | 1 | 1 |
| ehealth app development project | | 12 | 27 |
| e-health app development project | | 1 | 1 |
| mobile app development | | 1 | 3 |
| mobile app development approaches | | 1 | 1 |
| mobile app development project | | 11 | 32 |
| mobile app development teams | | 9 | 19 |

| Name | Description | Files | References |
|---|---|---|---|
| streaming service app development | | 1 | 1 |
| app development project | | 12 | 60 |
| ehealth app development project | | 12 | 27 |
| e-health app development project | | 1 | 1 |
| mobile app development project | | 11 | 32 |
| challenging | | 12 | 42 |
| big challenge | | 1 | 1 |
| bit challenging | | 1 | 2 |
| centric challenge | | 1 | 1 |
| challenging part | | 2 | 3 |
| challenging thing | | 1 | 1 |
| important challenges | | 1 | 1 |
| main challenge | | 4 | 5 |
| mental challenges | | 12 | 12 |

| Name | Description | Files | References |
|------|-------------|-------|------------|
| particularly challenging | | 12 | 13 |
| quite challenging | | 1 | 1 |
| several challenges | | 1 | 1 |
| technological challenges | | 1 | 1 |
| data | | 8 | 34 |
| accurate data | | 1 | 1 |
| background data collection | | 1 | 1 |
| consumer health data | | 1 | 1 |
| daily health data | | 1 | 2 |
| data charge | | 1 | 1 |
| data collection | | 1 | 1 |
| data connection thing | | 1 | 1 |
| data consumption | | 1 | 1 |
| data fields | | 1 | 1 |

| Name | Description | Files | References |
|------|-------------|-------|-----------|
| data output | | 1 | 1 |
| data privacy | | 1 | 1 |
| data protection | | 1 | 1 |
| data server | | 1 | 1 |
| data today | | 1 | 1 |
| employee data | | 1 | 1 |
| end user data | | 1 | 3 |
| full data transfer | | 1 | 1 |
| healthcare system data | | 1 | 1 |
| heavy data centric app | | 1 | 1 |
| low data scenario | | 1 | 1 |
| medical data | | 1 | 1 |
| patient data | | 1 | 1 |
| personal data | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| semantic data structures | | 1 | 1 |
| several table data | | 1 | 1 |
| summarized data | | 1 | 1 |
| taking users data | | 1 | 1 |
| user authentication data | | 1 | 2 |
| user data | | 1 | 1 |
| voice data | | 1 | 1 |
| design | | 11 | 31 |
| admin interface designer | | 1 | 2 |
| android material design pattern | | 1 | 1 |
| app designs | | 2 | 2 |
| app interface design | | 1 | 1 |
| architect user interface designer | | 1 | 1 |
| attractive ui-ux design | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| design flow | | 1 | 1 |
| design issue | | 1 | 1 |
| design language | | 1 | 1 |
| designer programmer | | 1 | 1 |
| existing designs | | 1 | 1 |
| good design | | 1 | 1 |
| graphical user interface designer | | 1 | 1 |
| graphics design | | 1 | 2 |
| interface designer | | 2 | 2 |
| manager programmer user interface designer | | 1 | 1 |
| particular design approach | | 5 | 6 |
| requirement design | | 1 | 1 |
| right material design process | | 1 | 1 |
| trivial design | | 1 | 1 |

| Name | Description | Files | References |
|------|-------------|-------|------------|
| ui design | | 1 | 1 |
| user centric design principal | | 1 | 1 |
| development | | 12 | 111 |
| app development industry | | 1 | 1 |
| developer community | | 1 | 1 |
| developer head office | | 1 | 1 |
| developer point | | 1 | 2 |
| developers job | | 1 | 1 |
| developing applications | | 1 | 1 |
| developing property | | 1 | 1 |
| development case | | 1 | 1 |
| development disabilities | | 1 | 1 |
| development lifecycle | | 1 | 1 |
| development phase | | 2 | 2 |

| Name | Description | Files | References |
|---|---|---|---|
| development platform coding | | 1 | 1 |
| development process | | 2 | 2 |
| development support | | 1 | 1 |
| development team | | 2 | 2 |
| development team everyone | | 1 | 1 |
| ehealth app development project | | 12 | 27 |
| e-health app development project | | 1 | 1 |
| experience developer | | 1 | 1 |
| field development team | | 1 | 2 |
| mobile app development | | 1 | 3 |
| mobile app development approaches | | 1 | 1 |
| mobile app development project | | 11 | 32 |
| mobile app development teams | | 9 | 19 |
| personal developer | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| software development team | | 1 | 1 |
| streaming service app development | | 1 | 1 |
| web development tool | | 1 | 1 |
| young developer | | 1 | 1 |
| ehealth app development project | | 12 | 27 |
| ehealth app development project | | 12 | 27 |
| health | | 8 | 30 |
| consumer health data | | 1 | 1 |
| daily health data | | 1 | 2 |
| day health records | | 1 | 1 |
| e health application | | 1 | 2 |
| family members health | | 1 | 1 |
| general health | | 1 | 1 |
| health communities | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| health date | | 1 | 1 |
| health health | | 1 | 1 |
| health information | | 1 | 1 |
| health issue section | | 1 | 1 |
| health monitoring service | | 1 | 1 |
| health organization | | 1 | 1 |
| health record | | 1 | 1 |
| health situation | | 1 | 1 |
| health suggestions | | 1 | 1 |
| health symptom condition | | 1 | 1 |
| health thing | | 1 | 1 |
| health tracking app | | 1 | 1 |
| medical health care management | | 1 | 1 |
| mental health | | 2 | 2 |

| Name | Description | Files | References |
|---|---|---|---|
| mobile health | | 1 | 1 |
| mobile health app | | 1 | 1 |
| physical health | | 1 | 1 |
| primary health checkup | | 1 | 1 |
| tracking users health condition | | 1 | 2 |
| issues | | 12 | 47 |
| accessibility issues | | 1 | 1 |
| centric issues | | 3 | 9 |
| design issue | | 1 | 1 |
| end user human-centric issues | | 1 | 1 |
| health issue section | | 1 | 1 |
| hearing problem issues | | 1 | 1 |
| human centric issues | | 1 | 4 |
| human safety issues | | 2 | 2 |

| Name | Description | Files | References |
|---|---|---|---|
| human-centric issues | | 4 | 5 |
| important issue | | 1 | 2 |
| language issues | | 1 | 1 |
| legal issues | | 1 | 3 |
| mental issues | | 1 | 1 |
| network connection issues | | 1 | 1 |
| others issues | | 1 | 1 |
| privacy issues | | 1 | 1 |
| private issue | | 1 | 1 |
| quality issue | | 1 | 1 |
| related issues | | 3 | 4 |
| reliability issues | | 1 | 1 |
| security issues | | 1 | 1 |
| type issues | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| user accessibility issues | | 1 | 2 |
| user issues | | 1 | 1 |
| mobile app development project | | 11 | 32 |
| mobile app development project | | 11 | 32 |
| project | | 12 | 69 |
| big project | | 1 | 1 |
| ehealth app development project | | 12 | 27 |
| e-health app development project | | 1 | 1 |
| mobile app development project | | 11 | 32 |
| open source project | | 1 | 1 |
| overall project | | 1 | 1 |
| project manager | | 1 | 2 |
| sample project | | 1 | 1 |
| standalone project | | 1 | 1 |

| Name | Description | Files | References |
|------|-------------|-------|------------|
| university research project | | 1 | 1 |
| warehouse management project | | 1 | 1 |
| roles | | 12 | 25 |
| crucial role | | 1 | 1 |
| current role | | 12 | 12 |
| former roles | | 12 | 12 |
| team | | 12 | 39 |
| analytics team analyses | | 1 | 1 |
| big team | | 1 | 1 |
| development team | | 2 | 2 |
| development team everyone | | 1 | 1 |
| field development team | | 1 | 2 |
| mobile app development teams | | 9 | 19 |
| particular team | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| product team | | 1 | 1 |
| small team | | 1 | 1 |
| software development team | | 1 | 1 |
| software team | | 2 | 2 |
| sub team | | 1 | 1 |
| team leader | | 1 | 1 |
| team members | | 1 | 1 |
| testing team | | 1 | 2 |
| time software team | | 1 | 2 |
| testing | | 11 | 33 |
| acceptance testing | | 9 | 9 |
| alpha tester | | 1 | 1 |
| app testing | | 3 | 3 |
| japanese character test | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| optional testing | | 1 | 1 |
| particular test cases | | 1 | 1 |
| test cases | | 4 | 4 |
| test everything | | 1 | 1 |
| test group | | 1 | 1 |
| test instruction | | 1 | 1 |
| test phase | | 1 | 1 |
| test runs | | 1 | 1 |
| test user | | 1 | 2 |
| testing part | | 1 | 1 |
| testing team | | 1 | 2 |
| testing tools | | 2 | 2 |
| wrong test | | 1 | 1 |
| user | | 12 | 116 |

| Name | Description | Files | References |
|------|-------------|-------|------------|
| application user log | | 1 | 2 |
| architect requirements analyst user | | 1 | 1 |
| architect user interface | | 1 | 1 |
| architect user interface designer | | 1 | 1 |
| asked user | | 1 | 2 |
| asking user day | | 1 | 1 |
| conversation model user | | 1 | 2 |
| cracking user voice call | | 1 | 2 |
| demographic users | | 1 | 1 |
| different target users | | 1 | 1 |
| different user interface | | 1 | 1 |
| direct user input | | 1 | 1 |
| disabled users | | 1 | 1 |
| diverse end user needs | | 1 | 1 |

| Name | Description | Files | References |
|------|-------------|-------|------------|
| diverse end users | | 8 | 9 |
| elderly users | | 2 | 4 |
| end user data | | 1 | 3 |
| end user human-centric issues | | 1 | 1 |
| end users age | | 2 | 3 |
| explained user process | | 1 | 1 |
| general user | | 1 | 1 |
| generalized user centric principle | | 1 | 1 |
| german users | | 1 | 1 |
| graphical user interface designer | | 1 | 1 |
| historical impact user experience | | 1 | 2 |
| local users | | 1 | 1 |
| manager programmer user interface designer | | 1 | 1 |
| multi domain user | | 1 | 2 |

| Name | Description | Files | References |
|---|---|---|---|
| multicultural user | | 1 | 1 |
| programmer user interface | | 1 | 1 |
| simple user interface | | 1 | 1 |
| system users | | 1 | 1 |
| taking users data | | 1 | 1 |
| test user | | 1 | 2 |
| tracking users health condition | | 1 | 2 |
| uneducated users | | 1 | 1 |
| user accessibility issues | | 1 | 2 |
| user age | | 3 | 4 |
| user assistance | | 1 | 1 |
| user authentication data | | 1 | 2 |
| user base individual | | 1 | 2 |
| user behavior | | 1 | 1 |

| Name | Description | Files | References |
|---|---|---|---|
| user behaviour | | 1 | 1 |
| user centric design principal | | 1 | 1 |
| user claim | | 1 | 1 |
| user country | | 1 | 1 |
| user dashboard | | 1 | 1 |
| user data | | 1 | 1 |
| user diversity | | 3 | 3 |
| user domain | | 1 | 2 |
| user engagement | | 1 | 1 |
| user flow | | 1 | 2 |
| user headache | | 1 | 1 |
| user input | | 1 | 1 |
| user issues | | 1 | 1 |
| user needs | | 2 | 2 |

| Name | Description | Files | References |
|---|---|---|---|
| user point | | 1 | 1 |
| user profile | | 1 | 1 |
| user reports | | 1 | 1 |
| user reviews | | 9 | 11 |
| user right | | 1 | 1 |
| user use | | 1 | 1 |
| users disease | | 1 | 1 |
| users feedback | | 4 | 5 |
| users location | | 1 | 1 |
| users response | | 1 | 1 |
| using apis | | 1 | 1 |
| young user | | 1 | 1 |