|  |  |  |
| --- | --- | --- |
| 1 | Neurological Disorders and Stroke |  |
| 2 | Spine Health | “Anatomy and Function,” *University of Maryland Medical Center*. [Online]. Available: https://www.umms.org/ummc/health-services/orthopedics/services/spine/patient-guides/anatomy-function. [Accessed: 20-Apr-2019]. |
| 3 | Agile and Scrum | “What is Agile Software Development?,” *Agile Alliance*, 05-Mar-2019. [Online]. Available: https://www.agilealliance.org/agile101/. [Accessed: 20-Apr-2019]. |
| 4 | Posture Perfect |  |
| 5 | 3.1.1 Skeletal |  |
| 6 | 3.1.2 Muscular |  |
| 7 | 3.1.3 Circulation |  |
| 8 | Center of Gravity | A. Asher and Cpt, “The Human Center of Gravity Defined,” *Verywell Health*. [Online]. Available: https://www.verywellhealth.com/human-center-of-gravity-296568. [Accessed: 20-Apr-2019]. |
| 9 | Yoga - intro | “5 Yoga Poses to Ease Lower Back Pain,” *DOYOUYOGA.COM*, 01-Oct-2015. [Online]. Available: https://www.doyouyoga.com/5-yoga-poses-to-ease-lower-back-pain-30237/. [Accessed: 20-Apr-2019]. |
| 10 | Yoga – downward facing dog | “Downward Facing Dog Pose-Adho Mukha Svanasana-Ekhart Yoga | Ekhart Yoga,” *Ekhart Yoga online*. [Online]. Available: https://www.ekhartyoga.com/resources/yoga-poses/downward-facing-dog-pose. [Accessed: 20-Apr-2019]. |
| 11 | Yoga – reclined pigeon | N. Rizopoulos, “The King of Hip Openers: Pigeon Pose,” *Yoga Journal*, 16-Jul-2008. [Online]. Available: https://www.yogajournal.com/practice/pigeon-pose. [Accessed: 20-Apr-2019]. |
| 12 | Yoga – knees to chest | Yoga Magazine, “KNEES TO CHEST POSE,” *Yoga Magazine*, 26-Sep-2013. [Online]. Available: http://www.yogamagazine.com/knees-to-chest-pose/. [Accessed: 20-Apr-2019]. |
| 13 | Yoga – supine twist | A. Asher and Cpt, “Spinal Twist: Using Yoga for Back Pain,” *Verywell Health*. [Online]. Available: https://www.verywellhealth.com/yoga-for-back-pain-supine-spinal-twist-297346. [Accessed: 20-Apr-2019]. |
| 14 | Yoga - sphinx | Y. J. Editors, “Sphinx Pose,” *Yoga Journal*, 28-Aug-2007. [Online]. Available: https://www.yogajournal.com/poses/sphinx-pose. [Accessed: 20-Apr-2019]. |
| 15 | Yoga – thread the needle | K. CollinsKelly and Nasm, “These 9 Relaxing Poses Relieve Pain in Your Back and Shoulders,” *Paleo Blog*, 20-Feb-2019. [Online]. Available: https://blog.paleohacks.com/yoga-release-shoulder-back-pain/. [Accessed: 20-Apr-2019]. |
| 16 | Yoga – cat and cow | S. Stevenson, “Yoga for Neck Pain | Neck and Shoulder Stretches,” *Openfit*, 08-Oct-2018. [Online]. Available: https://www.openfit.com/9-yoga-poses-to-help-relieve-neck-and-shoulder-pain. [Accessed: 20-Apr-2019]. |
| 17 | 3.3 Similar Products |  |
| 18 | 3.3.1 Upright Go |  |
| 19 | 3.3.2 Non-smart wearable |  |
| 20 | 3.3.3 Ergonomic Chairs |  |
| 21 | 3.4 Hardware specifications/issues |  |
| 22 | 3.4.2 power supply |  |
| 23 | 3.4.2 Power Supply | Just incase this section has more than 1 source |
| 24 | 3.4.3 Load Sensors | “Bonded Strain Gauges,” *Instrumentation and Control Engineering*. [Online]. Available: http://instrumentationandcontrollers.blogspot.com/2010/11/bonded-strain-gauges.html. [Accessed: 20-Apr-2019]. |
| 25 | 3.4.3 Load Sensors | “Strain Gauges,” *Strain Gauges | Omega Engineering US*. [Online]. Available: https://www.omega.com/pptst/SGN\_SPANRESISTORS.html?pn=SGN-4/20-E. [Accessed: 20-Apr-2019]. |
| 26 | 3.4.4Proximity Sensors | “What's the difference between the motion sensors,” *Welcome to Brandon Lighting*, 11-Jul-2018. [Online]. Available: https://brandon-lighting.com/whats-the-difference-between-pir-ultrasonic-microwave-occupancy-sensors/. [Accessed: 20-Apr-2019]. |
| 27 | 3.4.5Amplification Cicuit | “ADS1231 (ACTIVE),” *ADS1231 24-Bit, 80SPS, 1-Ch Delta-Sigma ADC for Resistive Bridge Sensors & Weigh Scales | TI.com*. [Online]. Available: http://www.ti.com/product/ADS1231?keyMatch=ADS123&tisearch=Search-EN-Products. [Accessed: 20-Apr-2019]. |
| 28 | 3.4.6 Microcontroller |  |
| 29 | 3.4.7.1LRA |  |
| 30 | 3.4.7.2ERM | “Eccentric Rotating Mass Vibration Motors – ERMs,” *recision Microdrives*. [Online]. Available: https://www.precisionmicrodrives.com/vibration-motors/eccentric-rotating-mass-vibration-motors-erms/. [Accessed: 20-Apr-2019]. |
| 31 | 3.4.8 Batteries |  |
| 32 | 3.4.9.1 Circuit Board Types |  |
| 33 | 3.4.9.1Microcontroller comparisons |  |
| 34 | 3.4.9.2 Texas Instruments MSP430 |  |
| 35 | 3.4.9.2 Texas Instruments F280049PMSR |  |
| 36 | 3.4.9.2 TI MSP430FR5739SRHATEP | “M430FR5739SRHATEP Texas Instruments | Mouser,” *Mouser Electronics*. [Online]. Available: https://www.mouser.com/ProductDetail/Texas-Instruments/M430FR5739SRHATEP?qs=/ha2pyFaduiwabCONVYtbcfa1yjVOouvgI5G9TxSrmE9Oo5y+xPPqAJH6LUGyT2c. [Accessed: 20-Apr-2019]. |
| 37 | 3.4.9.2 Microchip PIC24FJ1024GA606-I/PT |  |
| 38 | 3.4.9.2 Microchip Technology SAMA5D2 |  |
| 39 | 3.4.9.2 Atmel ATmega2560 | “ATMEGA2560-16AU by Microchip Technology | Microcontroller,” *Arrow.com*. [Online]. Available: https://www.arrow.com/en/products/atmega2560-16au/microchip-technology. [Accessed: 20-Apr-2019]. |
| 40 | 3.4.9.3 HC-SR04 |  |
| 41 | 3.4.9.3 VEX 276 - 2155 |  |
| 42 | 3.4.9.4 Piezoresistive Sensor | C. Pang, G.-Y. Lee, T.-il Kim, S. M. Kim, H. N. Kim, S.-H. Ahn, and K.-Y. Suh, “A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres,” *Semantics Scholar*, 29-Jul-2012. [Online]. Available: https://pdfs.semanticscholar.org/962c/c9e66904d86bdc22b518785038db1c06601f.pdf. [Accessed: 20-Apr-2019]. |
| 43 | 3.4.9.4 FSR-406 |  |
| 44 | 3.4.9.4 Spark Fun | “SEN-09376 SparkFun | Mouser,” *Mouser Electronics*. [Online]. Available: https://www.mouser.com/ProductDetail/SparkFun/SEN-09376?qs=/ha2pyFadug6mU392eSvum78YON5aunGg7TU89blaYI=. [Accessed: 20-Apr-2019]. |
| 45 | TEK Scan (A502) | “Square Force Sensing Resistor | FlexiForce A502 Sensor,” *Tekscan*. [Online]. Available: https://www.tekscan.com/products-solutions/force-sensors/a502. [Accessed: 20-Apr-2019]. |
| 46 | TEK Scan (A301) | “FlexiForce A301 Datasheet,” *Tekscan*, 05-Nov-2018. [Online]. Available: https://www.tekscan.com/resources/product/flexiforce-a301-datasheet. [Accessed: 20-Apr-2019]. |
| 47 | 3.4.9.4.2 Calibration |  |
| 48 | 3.4.9.4.2 Mounting |  |
| 49 | 3.4.9.4.2 Proper Loading |  |
| 50 | ATMega Development Board | “[TUT] [C] Newbie's Guide to the AVR ADC,” *AVR Freaks*, 23-Jun-2015. [Online]. Available: https://www.avrfreaks.net/forum/tut-c-newbies-guide-avr-adc?name=PNphpBB2&file=viewtopic&t=56429. [Accessed: 20-Apr-2019]. |
| <http://bildr.org/2012/11/flexiforce-arduino/> |
| 51 | 3.4.9.6.1 PCB Terminology | *PCB Basics*. [Online]. Available: https://learn.sparkfun.com/tutorials/pcb-basics/all. [Accessed: 20-Apr-2019]. |
| 52 | 3.4.9.6.1 PCB Terminology | O. Team, “Understanding PCB Manufacturing: Silk-Screening,” *Understanding PCB Manufacturing: Silk-Screening*. [Online]. Available: http://www.omnicircuitboards.com/blog/bid/312861/understanding-pcb-manufacturing-silk-screening. [Accessed: 20-Apr-2019]. |
| 53 | 3.4.9.6.1 Printing |  |
| 54 | 3.4.9.6.2 Powering PCB |  |
| 55 | Regulating PCB Voltage | SparkFun Electric, “uA7800 Series (Rev. J),” *SparkFun*, May-2003. [Online]. Available: https://www.sparkfun.com/datasheets/Components/LM7805.pdf. [Accessed: 20-Apr-2019]. |
| “admin,” *Pinout, Diagrams, Equivalent & Datasheet*. [Online]. Available: https://components101.com/7805-voltage-regulator-ic-pinout-datasheet. [Accessed: 20-Apr-2019]. |
| 56 | Switch | *Switch Basics*. [Online]. Available: https://learn.sparkfun.com/tutorials/switch-basics/all. [Accessed: 20-Apr-2019]. |
| 57 | 3.4.9.6.3 Eagle |  |
| 58 | 3.4.9.6.3 OrCAD |  |
| 59 | 3.4.9.6.3 Easy EDA |  |
| 60 | 3.5.2 Intro | “The Importance of Application Security: A Few of the Benefits and Risks,” *Veracode*, 23-Jan-2017. [Online]. Available: https://www.veracode.com/blog/intro-appsec/importance-application-security-few-benefits-and-risks. [Accessed: 20-Apr-2019]. |
| 61 | 3.5.2 Intro | C. Wodehouse, “8 Tips for Better Mobile Application Security,” *Upwork*, 05-Jul-2018. [Online]. Available: https://www.upwork.com/hiring/mobile/mobile-application-security/. [Accessed: 20-Apr-2019]. |
| 62 | 3.5.2 SQL Injection | *SQL Injection*. [Online]. Available: https://www.w3schools.com/sql/sql\_injection.asp. [Accessed: 20-Apr-2019]. |
| 63 | 3.5.2 XXS Attacks | “Cross-Site Scripting (XSS) Tutorial: Learn About XSS Vulnerabilities, Injections and How to Prevent Attacks,” *Veracode*, 18-Apr-2019. [Online]. Available: https://www.veracode.com/security/xss. [Accessed: 20-Apr-2019]. |
| 64 | Storing Passwords | “Keeping Passwords Secure,” *Facebook Newsroom*. [Online]. Available: https://newsroom.fb.com/news/2019/03/keeping-passwords-secure/. [Accessed: 20-Apr-2019]. |
| 65 | Storing Passwords | “How to store a password in database?,” *GeeksforGeeks*, 09-Feb-2018. [Online]. Available: https://www.geeksforgeeks.org/store-password-database/. [Accessed: 20-Apr-2019]. |
| 66 | 3.5.3 iOS | “Is A MacBook Pro Good Enough For iOS Development? – LearnAppMaking,” *LearnAppMaking*, 20-Nov-2018. [Online]. Available: https://learnappmaking.com/ios-development-macbook-pro-good-enough/. [Accessed: 20-Apr-2019]. |
| 67 | 3.5.3 iOS | *Apple Developer Documentation*. [Online]. Available: https://developer.apple.com/documentation/. [Accessed: 20-Apr-2019]. |
| 68 | 3.5.3 Android | “Documentation,” *Android Developers*. [Online]. Available: https://developer.android.com/docs. [Accessed: 20-Apr-2019]. |
| 69 | 3.5.3 Flutter | “Flutter in Mobile App Development – Pros & Cons for App Owners,” *iOS & Android Mobile App Development Company - Droids On Roids - Poland*, 28-Mar-2019. [Online]. Available: https://www.thedroidsonroids.com/blog/flutter-in-mobile-app-development-pros-and-cons-for-app-owners. [Accessed: 20-Apr-2019]. |
| 70 | Flutter Pros | M. Bellinaso and M. Bellinaso, “Flutter: the good, the bad and the ugly,” *Medium*, 23-Nov-2018. [Online]. Available: https://medium.com/asos-techblog/flutter-vs-react-native-for-ios-android-app-development-c41b4e038db9. [Accessed: 20-Apr-2019]. |
| 71 | Flutter Hot Reload | “Hot reload,” *Flutter by Google*. [Online]. Available: https://flutter.dev/docs/development/tools/hot-reload. [Accessed: 20-Apr-2019]. |
| 72 | 3.5.3 Flutter Testimonial | “Abbey Road Studios (Flutter Developer Story),” *YouTube*, 05-Dec-2018. [Online]. Available: https://youtu.be/\_ACWeGGBP4E. [Accessed: 20-Apr-2019]. |
| 73 | Widgets | “Widget catalog,” *Flutter by Google*. [Online]. Available: https://flutter.dev/docs/development/ui/widgets. [Accessed: 20-Apr-2019]. |
| 74 | Icons | E. Ravenscraft and E. Ravenscraft, “How Widgets Can Actually Make Your Phone More Productive,” *Lifehacker*, 03-Sep-2014. [Online]. Available: https://lifehacker.com/how-widgets-can-actually-make-your-phone-more-productiv-1333180508. [Accessed: 20-Apr-2019]. |
| \* | Flutter Tutorial Walkthrough | L. B. T. App, “Complete Guide to Flutter: How to Build a Real World App,” *YouTube*, 30-Apr-2018. [Online]. Available: https://www.youtube.com/watch?v=S59b-XFsyY8. [Accessed: 21-Apr-2019]. |
| \* | Flutter Walkthrough | 1005245086190346, “What the F\*\*tter!? Understanding Flutter as an Android Developer,” *ProAndroidDev*, 02-Mar-2018. [Online]. Available: https://proandroiddev.com/what-the-f-tter-understanding-flutter-as-an-android-java-developer-2158086a2bd9. [Accessed: 21-Apr-2019]. |
| \* | Flutter Docs | “Dart API docs,” *Flutter*. [Online]. Available: https://docs.flutter.io/index.html. [Accessed: 21-Apr-2019]. |
| \* | Flutter Navigation | 523457184653447, “Flutter: Creating Multi Page Application with Navigation,” *ProAndroidDev*, 21-May-2018. [Online]. Available: https://proandroiddev.com/flutter-creating-multi-page-application-with-navigation-ef9f4a72d181. [Accessed: 21-Apr-2019]. |
| 75 | PhoneGap | “Adobe PhoneGap,” *PhoneGap Documentation | PhoneGap Docs*. [Online]. Available: http://docs.phonegap.com/. [Accessed: 20-Apr-2019]. |
| 76 | Sencha Touch | “Sencha Touch,” *Sencha.com*, 07-Mar-2018. [Online]. Available: https://www.sencha.com/products/touch/. [Accessed: 20-Apr-2019]. |
| 77 | Dart | M. Swehli and M. Swehli, “Why Dart is the Language to Learn of 2018,” *Medium*, 12-Mar-2018. [Online]. Available: https://medium.com/@mswehli/why-dart-is-the-language-to-learn-of-2018-e5fa12adb6c1. [Accessed: 20-Apr-2019]. |
| 78 | Dart and Flutter | W. Leler, “Why Flutter Uses Dart,” *Hacker Noon*, 26-Feb-2018. [Online]. Available: https://hackernoon.com/why-flutter-uses-dart-dd635a054ebf. [Accessed: 20-Apr-2019]. |
| \* | Syntax Notes Dart | “A Tour of the Dart Language,” *Dart*. [Online]. Available: https://www.dartlang.org/guides/language/language-tour. [Accessed: 21-Apr-2019]. |
| 79 | 3.5.5.1 Persistent Data | “What is persistence and why does it matter?,” *DataStax*, 19-Jan-2018. [Online]. Available: https://www.datastax.com/dev/blog/what-persistence-and-why-does-it-matter. [Accessed: 20-Apr-2019]. |
| 80 | 3.5.5.1 | “Data and file storage overview  |  Android Developers,” *Android Developers*. [Online]. Available: https://developer.android.com/guide/topics/data/data-storage. [Accessed: 20-Apr-2019]. |
| 81 | 3.5.5.1 | “How to store data locally in an Android app,” *Android Authority*, 20-Nov-2017. [Online]. Available: https://www.androidauthority.com/how-to-store-data-locally-in-android-app-717190/. [Accessed: 20-Apr-2019]. |
| 82 | 3.5.5.1 Internal SToragee (pg 59) |  |
| 83 | Read/Write Files | “Reading and Writing Files,” *Flutter by Google*. [Online]. Available: https://flutter.dev/docs/cookbook/persistence/reading-writing-files. [Accessed: 20-Apr-2019]. |
| 84 | SQLCipher | Drydart, “drydart/flutter\_sqlcipher,” *GitHub*, 22-Mar-2019. [Online]. Available: https://github.com/drydart/flutter\_sqlcipher. [Accessed: 20-Apr-2019]. |
| 85 | Storing data with Android | “How to store data locally in an Android app,” *Android Authority*, 20-Nov-2017. [Online]. Available: https://www.androidauthority.com/how-to-store-data-locally-in-android-app-717190/. [Accessed: 20-Apr-2019]. |
| 86 | SQLite When to Use | *Appropriate Uses For SQLite*. [Online]. Available: https://www.sqlite.org/whentouse.html. [Accessed: 20-Apr-2019]. |
| 87 | SQLite ProsCons | “SQLite As An Application File Format,” *Benefits of SQLite As A File Format*. [Online]. Available: https://www.sqlite.org/aff\_short.html. [Accessed: 20-Apr-2019]. |
| 88 | sqflite | Tekartik, “tekartik/sqflite,” *GitHub*, 11-Apr-2019. [Online]. Available: https://github.com/tekartik/sqflite. [Accessed: 20-Apr-2019]. |
| 89 | Shared Preferences | Tutorialspoint.com, “Android Shared Preferences,” *www.tutorialspoint.com*. [Online]. Available: https://www.tutorialspoint.com/android/android\_shared\_preferences.htm. [Accessed: 20-Apr-2019]. |
| 90 | 3.5.5.2 External Storage | “Data and file storage overview  |  Android Developers,” *Android Developers*. [Online]. Available: https://developer.android.com/guide/topics/data/data-storage. [Accessed: 20-Apr-2019]. |
| 91 | 3.5.5.3 Database | “Data and file storage overview  |  Android Developers,” *Android Developers*. [Online]. Available: https://developer.android.com/guide/topics/data/data-storage. [Accessed: 20-Apr-2019]. |
| 92 | 3.5.5.4 SQL | “What is a Relational Database Management System?,” *Codecademy*. [Online]. Available: https://www.codecademy.com/articles/what-is-rdbms-sql. [Accessed: 20-Apr-2019]. |
| 93 | Database Normalization | Tutorialspoint.com, “SQL Tutorial,” *www.tutorialspoint.com*. [Online]. Available: https://www.tutorialspoint.com/sql/. [Accessed: 20-Apr-2019]. |
| 94 | 3.5.4.4.2 MySQL | “Oracle MySQL,” *Oracle*. [Online]. Available: https://www.oracle.com/mysql/. [Accessed: 20-Apr-2019]. |
| 95 | MySQL pros | “8 Major Advantages of Using MySQL,” *datamation*. [Online]. Available: https://www.datamation.com/storage/8-major-advantages-of-using-mysql.html. [Accessed: 20-Apr-2019]. |
| 96 | MySQL Connection | “mysql1 | Dart Package,” *Dart Packages*, 28-Nov-2018. [Online]. Available: https://pub.dartlang.org/packages/mysql1. [Accessed: 20-Apr-2019]. |
| 97 | NoSQL | “NoSQL Databases Explained,” *MongoDB*. [Online]. Available: https://www.mongodb.com/nosql-explained. [Accessed: 20-Apr-2019]. |
| 98 | RealmDB | “Realm Platform,” *Realm*. [Online]. Available: https://realm.io/products/realm-platform. [Accessed: 20-Apr-2019]. |
| 99 | RealmDB and Flutter | Realm, “Dart / Flutter Support · Issue #55 · realm/realm-object-server,” *GitHub*. [Online]. Available: https://github.com/realm/realm-object-server/issues/55. [Accessed: 20-Apr-2019]. |
| 100 | Couchbase | “COUCHBASE NAMED A LEADER,” *Couchbase*. [Online]. Available: https://www.couchbase.com/. [Accessed: 20-Apr-2019]. |
| 101 | Couchbase and Flutter | Oltrenuovefrontiere, “oltrenuovefrontiere/fluttercouch,” *GitHub*, 10-Nov-2018. [Online]. Available: https://github.com/oltrenuovefrontiere/fluttercouch. [Accessed: 20-Apr-2019]. |
| 102 | Flutter and MySQL | N. Apps, “Flutter and MySQL,” *Medium*, 15-Jun-2018. [Online]. Available: https://medium.com/@thedome6/flutter-and-mysql-1d0dc9dfe4af. [Accessed: 20-Apr-2019]. |
| 103 | Flutter and SQlite | R. Rahiche and R. Rahiche, “Using SQLite in Flutter,” *Medium*, 12-Dec-2018. [Online]. Available: https://medium.com/flutter-community/using-sqlite-in-flutter-187c1a82e8b. [Accessed: 20-Apr-2019]. |
| 104 | Flutter and SQLCipher | “flutter\_sqlcipher | Flutter Package,” *Dart Packages*, 13-Mar-2019. [Online]. Available: https://pub.dartlang.org/packages/flutter\_sqlcipher. [Accessed: 20-Apr-2019]. |
| 105 | Flutter and Read/Write Files | “Reading and Writing Files,” *Flutter by Google*. [Online]. Available: https://flutter.dev/docs/cookbook/persistence/reading-writing-files. [Accessed: 20-Apr-2019]. |
| 106 | Realm DB | Realm, “Dart / Flutter Support · Issue #55 · realm/realm-object-server,” *GitHub*. [Online]. Available: https://github.com/realm/realm-object-server/issues/55. [Accessed: 20-Apr-2019]. |
| 107 | Flutter and Couchbase | hemeda3, “hemeda3/couchbase-lite-flutter,” *GitHub*. [Online]. Available: https://github.com/hemeda3/couchbase-lite-flutter. [Accessed: 20-Apr-2019]. |
| \* | Webviews | W. Leler, “What's Revolutionary about Flutter,” *Hacker Noon*, 25-Aug-2017. [Online]. Available: https://hackernoon.com/whats-revolutionary-about-flutter-946915b09514. [Accessed: 21-Apr-2019].**Flutter paragraph on page 50**  Applications have a user end and… end of that paragraph |
| 108 | Android and SQLite | “Android SQLite Database Tutorial,” *AndroidHive*, 13-May-2018. [Online]. Available: http://www.androidhive.info/2011/11/android-sqlite-database-tutorial/. [Accessed: 20-Apr-2019]. |
| 109 | Android and SQLCipher | Sqlcipher, “sqlcipher/android-database-sqlcipher,” *GitHub*. [Online]. Available: https://github.com/sqlcipher/android-database-sqlcipher. [Accessed: 20-Apr-2019]. |
| 110 | Android and Read/Write | “View on-device files with Device File Explorer  |  Android Developers,” *Android Developers*. [Online]. Available: https://developer.android.com/studio/debug/device-file-explorer. [Accessed: 20-Apr-2019]. |
| 111 | Android and Shared Preferenes | “Storing and Accessing SharedPreferencesEdit PagePage History,” *Storing and Accessing SharedPreferences | CodePath Android Cliffnotes*. [Online]. Available: https://guides.codepath.com/android/Storing-and-Accessing-SharedPreferences. [Accessed: 20-Apr-2019]. |
| 112 | Android and RealmDB | “What Are APIs and How Do They Work?,” *ProgrammableWeb*. [Online]. Available: https://www.programmableweb.com/api-university/what-are-apis-and-how-do-they-work. [Accessed: 20-Apr-2019]. |
| 113 | 3.5.5.1Data Binding | “Data Binding in Android,” *Android Authority*, 16-Aug-2016. [Online]. Available: https://www.androidauthority.com/data-binding-in-android-709747/. [Accessed: 20-Apr-2019]. |
| 114 | 3.5.6 Firebase | “Firebase,” *Google*. [Online]. Available: https://firebase.google.com/use-cases/. [Accessed: 20-Apr-2019]. |
| 115 | 3.5.6.1 | “Firebase Authentication  |  Firebase,” *Google*. [Online]. Available: https://firebase.google.com/docs/auth/. [Accessed: 20-Apr-2019]. |
| 116 | Firebase and Database | “Firebase Realtime Database | Store and sync data in real time  |  Firebase,” *Google*. [Online]. Available: https://firebase.google.com/products/realtime-database/. [Accessed: 20-Apr-2019]. |
| 117 | Firebase and DB | “Structure Your Database  |  Firebase Realtime Database  |  Firebase,” *Google*. [Online]. Available: https://firebase.google.com/docs/database/web/structure-data. [Accessed: 20-Apr-2019]. |
| 118 | Firebase Tutorial | Firebase, “Converting SQL structures to Firebase structures - The Firebase Database For SQL Developers #2,” *YouTube*, 22-Nov-2016. [Online]. Available: https://www.youtube.com/watch?v=ran\_Ylug7AE. [Accessed: 20-Apr-2019]. |
| 119 | Mistakes With Firebase | P. A. Martínez and P. A. Martínez, “Lessons learnt (the hard way) using Firebase RealTime Database,” *Pablo A. Martínez Andrés*, 24-Feb-2018. [Online]. Available: https://pamartinezandres.com/lessons-learnt-the-hard-way-using-firebase-realtime-database-c609b52b9afb. [Accessed: 20-Apr-2019]. |
| 120 | Users in Firebase | “Users in Firebase Projects  |  Firebase,” *Google*. [Online]. Available: https://firebase.google.com/docs/auth/users. [Accessed: 20-Apr-2019]. |
| 121 | Firebase Options | “Firebase Authentication  |  Firebase,” *Google*. [Online]. Available: https://firebase.google.com/docs/auth/. [Accessed: 20-Apr-2019]. |
| 122 | 3.5.6.6 Firebase Realtime Database | P. A. Martínez and P. A. Martínez, “Lessons learnt (the hard way) using Firebase RealTime Database,” *Pablo A. Martínez Andrés*, 24-Feb-2018. [Online]. Available: https://pamartinezandres.com/lessons-learnt-the-hard-way-using-firebase-realtime-database-c609b52b9afb. [Accessed: 21-Apr-2019].Firebase Realtime Database page 75 (both together) |
| \* | Realtime vs Cloud | “Choosing a Firebase Database For Your App: Realtime Database vs. Cloud Firestore,” *Savvy Apps*, 04-Apr-2019. [Online]. Available: https://savvyapps.com/blog/firebase-realtime-database-vs-cloud-firestore-for-your-app. [Accessed: 21-Apr-2019].Firebase Realtime Database page 75 (both together) |
| 123 | Firebase and Microcontroller | R. Rashmin and R. Rashmin, “Arduino to Android , Real Time Communication For IoT with Firebase,” *Medium*, 22-Jul-2018. [Online]. Available: https://medium.com/coinmonks/arduino-to-android-real-time-communication-for-iot-with-firebase-60df579f962. [Accessed: 20-Apr-2019]. |
| 124 | Firebase and JSON | DigitalOcean, “An Introduction to JSON,” *DigitalOcean*, 18-Jul-2017. [Online]. Available: https://www.digitalocean.com/community/tutorials/an-introduction-to-json. [Accessed: 20-Apr-2019]. |
| 125 | Firebase and Arduino | “Class Documentation¶,” *firebase*. [Online]. Available: https://firebase-arduino.readthedocs.io/en/latest/. [Accessed: 20-Apr-2019]. |
| 126 | 3.5.7 Bluetooth |  |
| 127 | Android Bluetooth | “Bluetooth overview  |  Android Developers,” *Android Developers*. [Online]. Available: https://developer.android.com/guide/topics/connectivity/bluetooth. [Accessed: 20-Apr-2019]. |
| 128 | Bluetooth Low Energy | “Bluetooth low energy overview  |  Android Developers,” *Android Developers*. [Online]. Available: https://developer.android.com/guide/topics/connectivity/bluetooth-le.html. [Accessed: 20-Apr-2019]. |
| 129 | Bluetooth and BLE | B. Ray, “Bluetooth Vs. Bluetooth Low Energy: What's The Difference?,” *Link Labs*. [Online]. Available: https://www.link-labs.com/blog/bluetooth-vs-bluetooth-low-energy. [Accessed: 20-Apr-2019]. |
| 130 | Bluetooth Communication to Android |  |
| 131 | Bluetooth and Flutter | “flutter\_blue | Flutter Package,” *Dart Packages*, 04-Feb-2019. [Online]. Available: https://pub.dartlang.org/packages/flutter\_blue. [Accessed: 20-Apr-2019]. |
| 132 | Password Recovery | “Password Reset Is Critical For A Good Customer Experience,” *Auth0*. [Online]. Available: https://auth0.com/learn/password-reset/. [Accessed: 20-Apr-2019]. |
| 133 | Password Resets | Troy Hunt, “Everything you ever wanted to know about building a secure password reset feature,” *Troy Hunt*, 26-Feb-2019. [Online]. Available: https://www.troyhunt.com/everything-you-ever-wanted-to-know/. [Accessed: 20-Apr-2019]. |
| 134 | Push Notifications | P. Birdsall and P. Birdsall, “Enabling Firebase Cloud Messaging Push Notifications with Flutter.,” *Medium*, 04-Sep-2018. [Online]. Available: https://medium.com/flutterpub/enabling-firebase-cloud-messaging-push-notifications-with-flutter-39b08f2ed723. [Accessed: 20-Apr-2019]. |
| 135 | 4. Standards Intro |  |
| 136 | Distribution - General | “How to get your Website or App ready for GDPR and other Privacy Standards,” *UVISION*, 18-May-2018. [Online]. Available: https://uvision.co/technology/how-to-get-your-website-or-app-ready-for-gdpr-and-other-privacy-standards/. [Accessed: 20-Apr-2019]. |
| 137 | Distribution – Google Play | “How To Submit An App To The Google Play Store,” *Clearbridge Mobile*, 13-Mar-2019. [Online]. Available: https://clearbridgemobile.com/how-to-submit-an-app-to-the-google-play-store/. [Accessed: 20-Apr-2019]. |
| 138 | Distribution – Google Play | “Upload an app - Play Console Help,” *Google*. [Online]. Available: https://support.google.com/googleplay/android-developer/answer/113469?hl=en. [Accessed: 20-Apr-2019]. |
| 139 | Distribution – Apple App Store | Apple Inc, “App Store Review Guidelines,” *App Store Review Guidelines - Apple Developer*. [Online]. Available: https://developer.apple.com/app-store/review/guidelines/. [Accessed: 20-Apr-2019]. |
| 140 | 4.2 Chair electricity standards |  |
| 141 | PCB standards | N. Davis, “The History and Basics of IPC Standards: The Official Standards for PCBs,” *All About Circuits*, 20-Oct-2017. [Online]. Available: https://www.allaboutcircuits.com/news/ipc-standards-the-official-standards-for-pcbs/. [Accessed: 20-Apr-2019]. |
| 142 | PCB Standards | “Class 2 vs. Class 3,” *Circuitnet*. [Online]. Available: http://www.circuitnet.com/experts/86649.html. [Accessed: 20-Apr-2019]. |
| 143 | Disability Standards | *W3C*. [Online]. Available: https://www.w3.org/standards/webdesign/accessibility. [Accessed: 20-Apr-2019]. |
| 144 | User Privacy | “International Privacy Standards,” *Electronic Frontier Foundation*. [Online]. Available: https://www.eff.org/issues/international-privacy-standards. [Accessed: 20-Apr-2019]. |
| 145 | Mobile App Standards | Y. So, “Designing for Mobile Apps: Overall Principles, Common Patterns, and Interface Guidelines,” *Medium*, 12-May-2017. [Online]. Available: https://medium.com/blueprint-by-intuit/native-mobile-app-design-overall-principles-and-common-patterns-26edee8ced10. [Accessed: 20-Apr-2019]. |
| 146 | Firebase Standards | “Understand Firebase projects  |  Firebase,” *Google*. [Online]. Available: https://firebase.google.com/docs/projects/learn-more#best-practices. [Accessed: 20-Apr-2019]. |
| 147 | 4.8.1 Principles |  |
| 148 | 4.8.2 Interface Platform |  |
| 149 | 4.8.4 Implementation | *Industry Standards for a Mobile App Development*. [Online]. Available: https://devtechnosys.com/know-about-industry-standard-for-app-development. [Accessed: 20-Apr-2019]. |
| 150 | 4.9 Power Supply Standards |  |
| 151 | 4.10 Economic and Time constraints |  |
| 152 | 5.1.1 Material Colors |  |
| 153 | Material Text |  |
| \* | Flutter Loading Indicator Blog | W. Arshad and W. Arshad, “Flutter | Progress indicators plugin | Loaders on the way!,” *Medium*, 19-Aug-2018. [Online]. Available: https://medium.com/@wal\_33d/flutter-progress-indicators-plugin-loaders-on-the-way-6aa983490253. [Accessed: 21-Apr-2019]. |
| \* | Flutter Loading Library | “progress\_indicators | Flutter Package,” *Dart Packages*, 19-Aug-2018. [Online]. Available: https://pub.dartlang.org/packages/progress\_indicators. [Accessed: 21-Apr-2019]. |
| \* | Flutter Nav Tutorial | B. Vanbilsen, “Flutter SDK Tutorial - Basic Navigation and Routes! (App Development),” *YouTube*, 22-May-2017. [Online]. Available: https://www.youtube.com/watch?v=RLyw-\_MLLTo. [Accessed: 21-Apr-2019]. |
| \* | Flutter Docs Nav | “Navigation & routing,” *Flutter by Google*. [Online]. Available: https://flutter.dev/docs/development/ui/navigation. [Accessed: 21-Apr-2019]. |
| \* | Flutter Data Charts Blog | M. Thomsen and M. Thomsen, “Beautiful, animated charts for Flutter,” *Medium*, 23-Mar-2018. [Online]. Available: https://medium.com/flutter-io/beautiful-animated-charts-for-flutter-164940780b8c. [Accessed: 21-Apr-2019]. |
| \* | Flutter Data Charts Lib | “charts\_flutter | Flutter Package,” *Dart Packages*, 15-Feb-2019. [Online]. Available: https://pub.dartlang.org/packages/charts\_flutter. [Accessed: 21-Apr-2019]. |
| \* | Flutter Settings Blog | Suragch, “Saving and reading data in Flutter with SharedPreferences,” *Medium*, 04-Jan-2019. [Online]. Available: https://medium.com/@studymongolian/saving-and-reading-data-in-flutter-with-sharedpreferences-bb4238d3105. [Accessed: 21-Apr-2019]. |
| \* | 5.1.3 Bluetooth with Flutter Lib | “flutter\_blue | Flutter Package,” *Dart Packages*, 04-Feb-2019. [Online]. Available: https://pub.dartlang.org/packages/flutter\_blue. [Accessed: 21-Apr-2019]. |
| \* | 5.1.3 Bluetooth Blog | S. Biswas and S. Biswas, “Flutter: Adding Bluetooth Functionality,” *Medium*, 05-Mar-2019. [Online]. Available: https://medium.com/flutter-community/flutter-adding-bluetooth-functionality-1b9715ccc698. [Accessed: 21-Apr-2019]. |
| \* | 5.1.3 Bluetooth Vocab | “A Developers Guide To Bluetooth,” *Bluetooth Technology Website*. [Online]. Available: https://blog.bluetooth.com/a-developers-guide-to-bluetooth. [Accessed: 21-Apr-2019]. |
| 154 | 5.2.2 Bluetooth | *Martyn Currey*. [Online]. Available: http://www.martyncurrey.com/category/bluetooth/. [Accessed: 20-Apr-2019]. |
| 155 | 5.2.3 Bluetooth | *Martyn Currey*. [Online]. Available: http://www.martyncurrey.com/hc-05-and-hc-06-zs-040-bluetooth-modules-first-look/. [Accessed: 20-Apr-2019]. |
| 156 | HC-05 | “admin,” *HC-05 Bluetooth Module Pinout, Specifications, Default Settings, Replacements & Datasheet*. [Online]. Available: https://components101.com/wireless/hc-05-bluetooth-module. [Accessed: 20-Apr-2019]. |
| 157 | HC-6 | “admin,” *HC 06 Bluetooth module pinout, features & datasheet*. [Online]. Available: https://components101.com/wireless/hc-06-bluetooth-module-pinout-datasheet. [Accessed: 20-Apr-2019]. |
| 158 | 5.2.6 Bluetooth 4 Modules |  |
| 159 | Hm-10 | *Martyn Currey*. [Online]. Available: http://www.martyncurrey.com/hm-10-bluetooth-4ble-modules/#more-4463. [Accessed: 20-Apr-2019]. |
| 160 | 5.2.8 BLE Link Bee | “The Guide to Bluetooth Modules for Arduino,” *Into Robotics*. [Online]. Available: https://www.intorobotics.com/pick-right-bluetooth-module-diy-arduino-project/. [Accessed: 20-Apr-2019]. |
| 161 | 5.2.8 | “Bluno Bee - Turn Arduino to a Bluetooth 4.0 (BLE) Ready Board,” *DFRobot*. [Online]. Available: https://www.dfrobot.com/product-1073.html. [Accessed: 20-Apr-2019]. |
| 162 | 5.2.8 | “BLE-Link\_\_SKU\_TEL0073\_,” *DFRobot*. [Online]. Available: https://wiki.dfrobot.com/BLE-Link\_\_SKU\_TEL0073\_. [Accessed: 20-Apr-2019]. |
| 163 | ESP8266 | *Getting Started with NodeMCU ESP-12 using Arduino IDE: Blinking an LED*. [Online]. Available: https://circuitdigest.com/microcontroller-projects/getting-started-with-nodemcu-esp12. [Accessed: 20-Apr-2019]. |
| 164 | ESP32 | SeeedStudio, “ESP-32S Wifi Bluetooth Combo Module,” *Seeed Studio*, 2019. [Online]. Available: https://www.seeedstudio.com/ESP-32S-Wifi-Bluetooth-Combo-Module-p-2706.html. [Accessed: 20-Apr-2019]. |
| 165 | Esp32 | “ESP32 – Cheapest IoT WiFi and Bluetooth ready module,” *ESP32 - Cheapest IoT WiFi and Bluetooth ready module*. [Online]. Available: https://www.geekstips.com/esp32-review-idf-programming-tutorial/. [Accessed: 20-Apr-2019]. |
| \* | Initial Design Architecture | “MakerCase,” *MakerCase*. [Online]. Available: https://www.makercase.com/. [Accessed: 21-Apr-2019]. |