**Full Stack Development Course**

**FSD ---full stack developer**

**Full stack ----deep learning --experts in two/three**

**Browser ----> Chrome/Edge/Firefox/Safari ---->**

**www.google.com ---> Web applications**

**Web application access by using browser**

**Web application two parts**

**Programming**

**1) UI ---User interface ----> one part develop ----**

**Technologies ----> HTML/CSS/Javascript/ node/React/Angular**

**2) Application ---> emails ---> program ---> running getting emails**

**Technologies Java EE, Django,Flask,ASP,Express**

**Persistance**

**3) Data base: store data**

**email**

**Technologies : Mysql,Oracle,Postgres, ..NoSQL (Mongo,cassandra,dynamo db....)**

**softwares: vscode,postman,soap ui,mysql workbench,Dbeaver,mongo atlas compass...plugin**

**chrome,edge,react dev....... v**

**What is a computer?**

**switches on/off**

**digital machine ---> digital language**

**Computer**

**Memory**

**Chip ---digital machine --(signal electric signal -->digital 1, digital0**

**IO ---key board,mouse**

**digital/binary language --<0,1> ---> mathematical add/sub/and/or/xor**

**00000000--64 ---> shut down**

**111111----64 ---> power up**

**Computer ----> Assembly language --->**

**English ADD ,MOV, PUSH.....**

**Intell chip ---**

**Apple chip ----**

**Computer --->**

**Higher level languages(HLL)**

**----> Make program ---run anywhere ---> C++,Java.....**

**uniform way of coding**

**HLL---english ---->**

**language ----> words,grammar, ----> make sense**

**Programming language ---> syntax,,semantics----> make sense**

**Java...**

**C##....**

**digital/binary**

**English HLL**

**English Translator French**

**>digital/binary**

**HLL --->Compiler/Interperter -->Assembly language ----> Assembler --digital/binary**

**--------syntax**

**--------error**

**---------**

**Program ---> instructions ---computer ---> task**

**add 22,33 ---> 55**

**print**

**System Program ---> OS -->driver --->C,C++**

**Application Program -->applications**