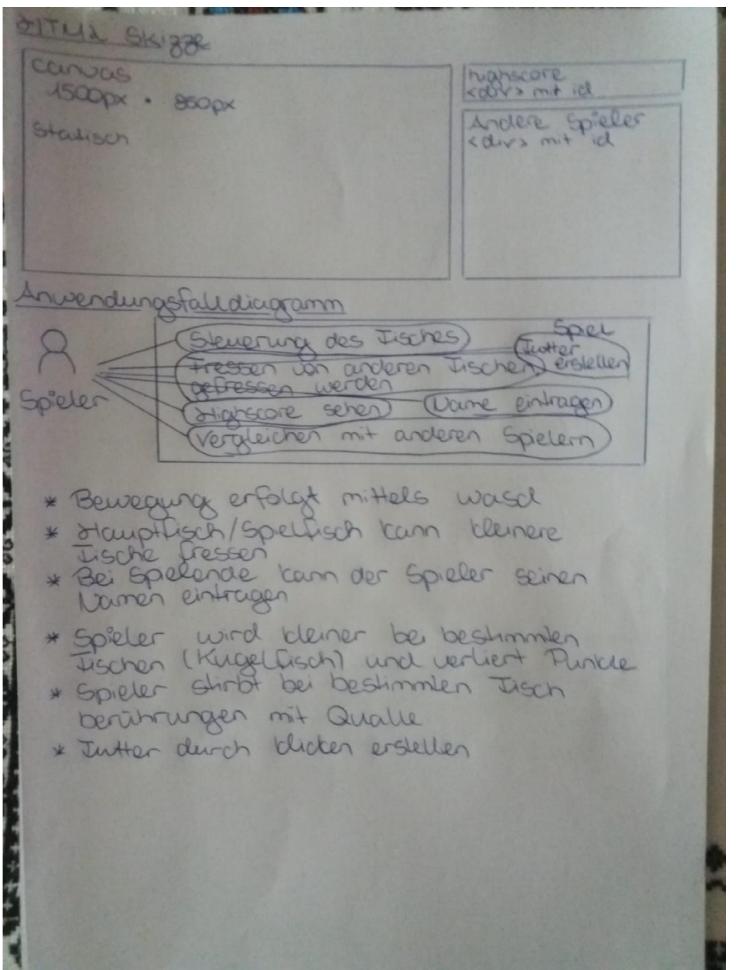
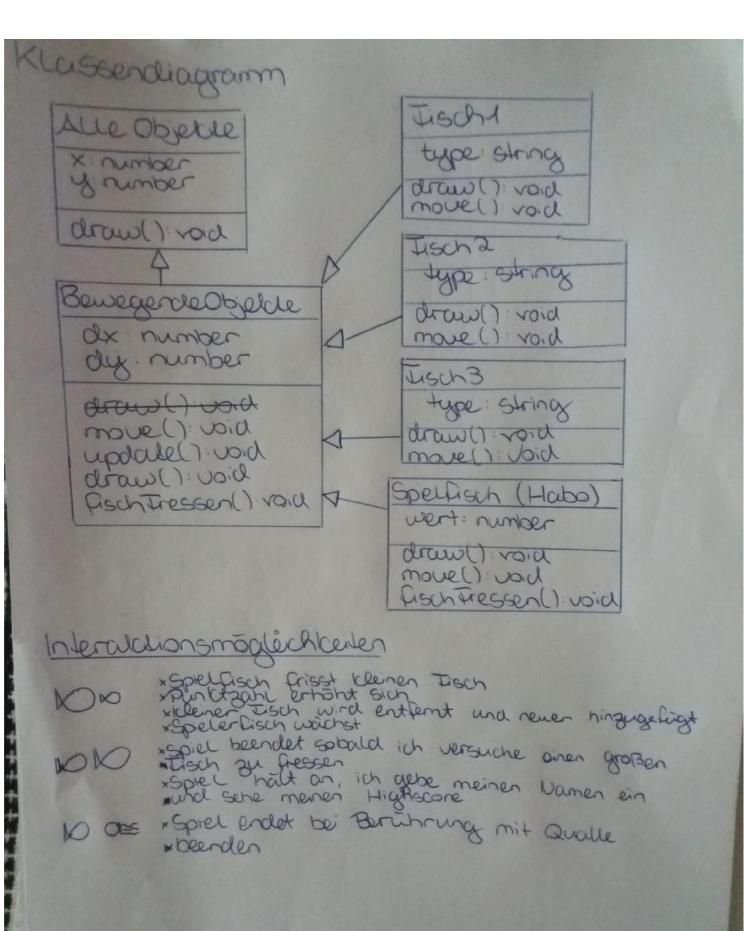
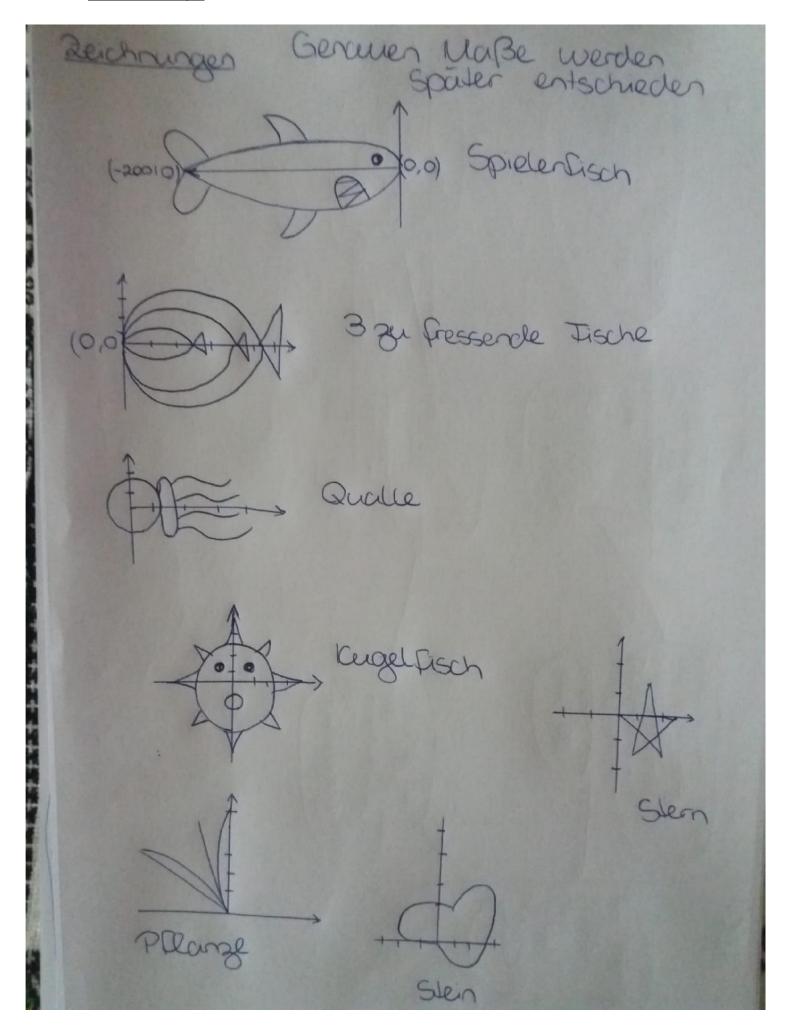
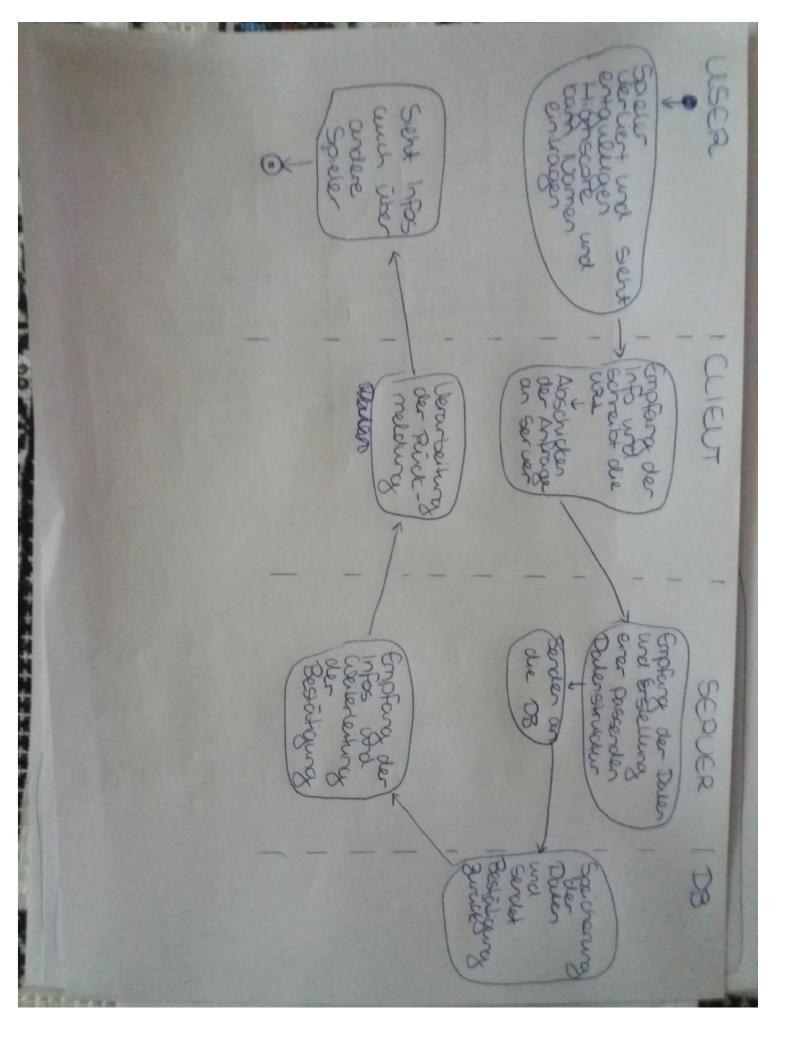
Funktionale Analyse

Plattform ist der PC, da man somit eine Steuerung des Spielfisches durch wasd ermöglicht.









Addivitatsdiagramm (1) Canuas Eventlistener für DOMContentlaaded und Cur Keydown erstellen initit export let crc export let canvas: HTMdCanvasElem export let bew05jArray Bewegerch05jelde[]-[]
export let spielerVame string export let habo Habo export let highscore: number = 9 let fips: number = 40 let ingDava: Image Dava DOMContenthooded tini canvas = add Event & Stener ("click", Tutterservice) crc = canvas aget Consent ("2a") zeichne Hintergrund() jingData = crc. getImageData let i number=0 [i< gentinechle Angahi] let fisch: Tisch1 = new Isch1 (zufallige Position Fisch ins Arrany pushen (update ();

Aduitatschagramm (2) canvas updade window. set Timeout (update, 1000/fps); Cro. clear Rect (0,0, carras width, cheight Crc. put Image Data (ing Data, 0,0), 1: number Ti < benegerde Objekte Arrang Severage Jupoalel) - event: Keyboard Event bewegungdestischs i=number=0 [ix bewoby Array length] [bew05] Array [i] instance of Habo Tevent toycode == 68/ (bew Obj Array [] x += 10) Das mit [Dew Doj Array [.] x > 1300] allen Keydown (bewobj Array [.]x = 100)

Admitatediagramm (3) canuas Levent Mouse Grent Mars aster Service let x : number = - quent dient x lety, runber - evant chenty let food Futter . new Jutter () Food x = food y = y benOb, Array push (food) food draw() export Engeben Spieler Dame = prompt ("text"); undow location reload (); export rightere Angelogen (doc. get El By la ("highscore") let prodictem LITILL Div Clement ! (prodtlem intertitud = colivs & highscore } cours doc. get Elem By 1d ("high score") appoint Child (prod Element)

(U) Alliv tatsoliagramm Spielenlisch (Haba) aschfressen (et isnumber = 0) [- CHARCH namaspace bounds Array length let xolis number: Mramespace 60A [x]x=1/2 x/1 lydis number = namespace bOA[J.y-shis.y let dis : number = Wirgel aus xdis im Quade > (mit allen Objetation -x) distanz < 20 8/2 ramespace, 60A[] type namespace box splice (1,1); namespace - highscore = highscore + 1 namespace nightsome Angeign (); push()

lient insert let guery: String = "command = ingert" Query + = "spreler Name + " Spuricle = " highscome Send Request (query, handle Inset Response handle - event : Progress Great Response let xhr: XMAHHPRey = (< XMAHHPRequests event target) And XD Xhr. ready Stede = = XM2 HHP Reguest. Done] (et Alle Spieler: Spieler [] = JSON. parse (xhr. response) Wi : number = 9 [Alle Spieler, length > 1] Alle Spreler. sort (Vergleide Highsigne Amahl der Congregien Plightones Tel prodition + ITMED . Clem = cloc. anewe clem ("dir") (prod Elem merLHml = "colus ... </olivs doc. get Gement Byld ("spielstaunder) append Child (prodition)

lient a Spieler, b. Spieler eergleich Highscore let puncle A: number = a punidrance let punde B: number . b. punistrani [purtleA < purcle B] X [purcle A > purcle B refurn -1 , between Q geturn 1 Server handle - request: HHp. Incoming Message -response: HHp. Server Response Reguest let onery. Punction! = (flightsahl > Url. parse (regrest url, ma) let commone String = greny ["command"] Switch command case "inger " (case "refresh") let spiele Spiele: Database find name query t'name"]
purtetante parse milqueny t'punkle" All (find Call he spand back) -respond wunknown (Dutabase insert (spirler) (break) (respond (-response, "Antworthest") (Frent (break)

Dolabase AD (7) Insert -doc Spreler Speler insert One (doc, handletisent) prepare -e: Mongo Gror Spieler Array Spieler L Eroar? An der callback ander Callback den JSONIString Le Lerguban der Gro-Tehler ner lergeben dem spieler Array mittels Stringify en 35010 string erstell weden