|  |
| --- |
| Mobile Game Entwickeln |
| IPA 2022 Fassung 1. |
| Joao Correia |

|  |  |
| --- | --- |
| IPA Information | |
| **Berufsfachschule** | CSBE Computer Schule Bern |
| Fachrichtung | Applikationsentwicklung |
| Jahrgang | 2022 Kanton Bern |
| Abgabe Datum | 20.5.2022 |

|  |  |
| --- | --- |
| Beteiligte Person | |
| **Autor** | Joao Correia |
| **Dozent/Abnahm Person** | Manuel Sollberger |

Kurzfassung

Ausgangslage

Erstellung

Ergebnis

Inhaltverzeichnis

[1. Organisation 3](#_Toc103062699)

[1.1. Aufgabenstellung 3](#_Toc103062700)

[1.1.1. Titel der Arbeit 3](#_Toc103062701)

[1.1.2. Thematik 3](#_Toc103062702)

[1.1.3. Ausgangslage 3](#_Toc103062703)

[1.1.4. Detallierte Aufgaenstellung 3](#_Toc103062704)

[1.1.5. Mittel und methoden inklusive Projektmethode 3](#_Toc103062705)

[1.1.6. Vorkenntnisse 3](#_Toc103062706)

[1.1.7. Vorarbeit 3](#_Toc103062707)

[1.1.8. Neue Lerninhalt 3](#_Toc103062708)

[1.1.9. Arbeit in Letzten 6 Monaten 4](#_Toc103062709)

[1.2. Standards 4](#_Toc103062710)

[1.3. IPA-Schutztbedarfanalyse 4](#_Toc103062711)

[1.4. Organistation der IPA Ergebnisse 4](#_Toc103062712)

[1.5. Projektvorgehen 4](#_Toc103062713)

[1.6. IPA Projektorganisation 4](#_Toc103062714)

[1.7. Risikoanalyse 4](#_Toc103062715)

[1.8. Zeitplan 5](#_Toc103062716)

[1.9. Arbeitsjournal 0](#_Toc103062717)

# Organisation

## Aufgabenstellung

### Titel der Arbeit

### Thematik

### Ausgangslage

### Detaillierte Aufgabenstellung

### Mittel und Methoden inklusive Projektmethode

### Vorkenntnisse

### Vorarbeit

### Neue Lerninhalt

### Arbeit in Letzten 6 Monaten

## Organisation der Arbeit Ergebnisse

### Datei Ablage

### Backup Konzepte

## Standards

## IPA-Schützt Bedarfsanalyse

## Projektvorgehen

## IPA Projektorganisation

## Risikoanalyse

## Zeitplan

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pos** | **Arbeitspaket** | **Arbeitstag in Stunden** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |  | | |  | | |  | | | |  | | | |
| **1** | **Information** | 9.5.2022 | | | 10.5.2022 | | | 11.5.2022 | | | 12.5.2022 | | | 13.5.2022 | | | 10.5.2024 | | | 9.5.2025 | | | 10.5.2025 | | | 9.5.2026 | | | | 10.5.2026 | | | |
| 1.1 | Informations Sammeln | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 1.2 | App Idee ausdenken | 0.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **2.** | **Plannung Formal** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.1 | Dokument ordnung erstellt | 2.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.2 | arbeitsjournal | 0.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.3 | Zeitplan |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.4 | Organisations der Arbeitergebnisse |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.5 | Standards setzen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.6 | IPA-Schutzbedarfanalyse |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.7 | IPA-Projektorganisation bestimmen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.8 | Risikoanalyse |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 2.9 | Abschlussbericht |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **3.** | **Plannung Praktischen Teil** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.1 | Einleitung |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.1.1 | Firmabeschrieb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.1.2 | Arbeitspbereich |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.1.3 | Aufgabenstellung |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.1.4 | Motivation zur IPA Projekt Thema |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.1.5 | Mehrwert der Arbeit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.2 | Analyse |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.2.1 | Ist Situationen genauer defenieren |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.2.2 | Soll Situation genauere defenieren |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3 | Entwurf/mockup |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3.1 | Fachspezifikation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3.2 | Mockups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3.3 | Technische Spezifikation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3.4 | Systemmodellierung |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3.5 | Entwurfmuster |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.3.6 | Test-Konzept |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.4 | Umsetzung bericht Struktur erstellen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 3.5 | Dokumentation Zeit Reserve |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **4.** | **Realisieren** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.1 | Layout erstellen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.2 | Demo bilder hinzufügen zu objekten |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.3 | Funktiontuchtige knöpfe hinzufügen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.4 | Text boxen erstellen mit Text |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.5 | Interagtion mit den Knöpfen und Text box |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.6 | Eingeschränkter zufälligkeit von Text aufgaben |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.7 | Einscanbare hand Funktion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.8 | Animation mit den Ausgewählten Knöpfen und Hand |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.9 | Geschichte erstellen des Spieles |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.9.1 | Einleitung mit Titelblatt |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.9.2 | Text schreiben für charackter |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.9.3 | Text hinzufügen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.9.4 | Ende machen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.10 | Umsetzung bericht ausfüllen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 4.11 | Feinschlief Reserve Zeit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **5.** | **Kontrollieren** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 5.1 | Test Protokolle dürchführen und Dokumentieren |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **6.** | **<Teilaufgabe>** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.1 | Reserver für Weiter Auftretene Probleme |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.2 | <Arbeitspaket> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.3 | <Arbeitspaket> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.4 | <Arbeitspaket> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.5 | <Arbeitspaket> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.6 | <Arbeitspaket> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 6.7 | <Arbeitspaket> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |

## Arbeitsjournal

09.05.2022

|  |  |  |
| --- | --- | --- |
| Tätigkeiten | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
| Dokumentation Struktur aufbauen | 2 | 2.5 |
| Die Anforderungen durchlesen | 1 | 1 |
| App Ideen Präsentieren | 0.2 | 0.2 |
| Arbeitsjournal | 0.1 | 0.1 |
| Zeitplan erstellen | 2 | 4 |
|  |  |  |
| ***Geplante Tagesreserve*** |  |  |
| Total: | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |
| Probleme | | |
| Keine Grössen. Musste bei Paaren Anforderungen nachfragen | | |
| Hilfestellungen | | |
| Dozent Sollberger hat mir geholfen bei Unklarheiten bei den Vorgaben was alles da sein muss | | |
| Reflexion | | |
| Komme Gut voran, habe alles schon Basismässig aufgebaut und kann am nächsten Tag weiterführen | | |
| Nächste Schritte | | |
| Die Dokumentation füllen | | |

10.05.2022

|  |  |  |
| --- | --- | --- |
| Tätigkeiten | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
| Zeitplan fertig machen | 2 | 2 |
| Die Dokument Struktur fertig machen |  |  |
| Backups defenieren |  |  |
|  |  |  |
| Aufgabenstellung anfangen |  |  |
|  |  |  |
| ***Geplante Tagesreserve*** |  |  |
| Total: | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |
| Probleme | | | |
|  | | | |
| Hilfestellungen | | | |
|  | | | |
| Reflexion | | | |
|  | | | |
| Nächste Schritte | | | |
|  | | | |

09.05.2022

|  |  |  |  |
| --- | --- | --- | --- |
| Tätigkeiten | Person | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| ***Geplante Tagesreserve*** |  |  |  |
| Total: |  | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |  |
| Probleme | | | |
|  | | | |
| Hilfestellungen | | | |
|  | | | |
| Reflexion | | | |
|  | | | |
| Nächste Schritte | | | |
|  | | | |

09.05.2022

|  |  |  |  |
| --- | --- | --- | --- |
| Tätigkeiten | Person | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| ***Geplante Tagesreserve*** |  |  |  |
| Total: |  | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |  |
| Probleme | | | |
|  | | | |
| Hilfestellungen | | | |
|  | | | |
| Reflexion | | | |
|  | | | |
| Nächste Schritte | | | |
|  | | | |

09.05.2022

|  |  |  |  |
| --- | --- | --- | --- |
| Tätigkeiten | Person | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| ***Geplante Tagesreserve*** |  |  |  |
| Total: |  | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |  |
| Probleme | | | |
|  | | | |
| Hilfestellungen | | | |
|  | | | |
| Reflexion | | | |
|  | | | |
| Nächste Schritte | | | |
|  | | | |

09.05.2022

|  |  |  |  |
| --- | --- | --- | --- |
| Tätigkeiten | Person | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| ***Geplante Tagesreserve*** |  |  |  |
| Total: |  | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |  |
| Probleme | | | |
|  | | | |
| Hilfestellungen | | | |
|  | | | |
| Reflexion | | | |
|  | | | |
| Nächste Schritte | | | |
|  | | | |

09.05.2022

|  |  |  |  |
| --- | --- | --- | --- |
| Tätigkeiten | Person | Aufwand  geplant (Std) | Aufwand  effektiv (Std) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| ***Geplante Tagesreserve*** |  |  |  |
| Total: |  | 0.00 | 0.00 |
| Abweichung SOLL / IST: |  |  |  |
| Probleme | | | |
|  | | | |
| Hilfestellungen | | | |
|  | | | |
| Reflexion | | | |
|  | | | |
| Nächste Schritte | | | |
|  | | | |