**Jumba-Z**

Reunião 2020-10-13 das 8:00 ad 10:10 (Horário de Brasilia)

Participantes: Manuel, Carlos Eduardo, Carlos Alberto.

**Uso do GitHub**

O Manuel explicou sobre os Branchs do Proejto no Github e sugeriou o uso do “GIT PUSH [alias] [branch] como forma de copiar os arquivos para o equipamento local

**Modelo (parcial) do Sistema**

Após análise de diversas e distintas situações, resolveu-se que o sistema, desde de seu desenvolvimento inicial, deverá fazer uso do modelo a seguir:

**Dados Mestres Básicos (**além destes, podem surgir novos como **Instructors**, **Places**, etc)

**Options**

**Options**

**Packages**

**Classes**

**Students**

**Packages**

**Classes**

**Students**

Onde:

**Students** contém dados mestres de cada **Student** (Código, Nomes, Endereço e-Mail, Celular, etc)

**Packages** contem os dados mestres de cada **Package** (Código, Nome, Datas de Inicio e Termino, Preço, etc),

**Options** contém dados mestres opcionais que definem as **Options** de Contratação/Aquisição disponibilizadas pelo **Package** (Código, Descrição, Datas de Validade, Preço, etc)

**Classes** contém os dados mestres de cada **Classe** (Código, Nome, Descrição, Local, Horário, Duração, Preço (Opcional), etc

**Dados Transcionais (adicionais)**

**Está sessão e as subsequentes não chegaram a ser discutidas em detalhes, tendo sido apenas comentadas superficialmente aspectos relativos ao processamento de Payments, Atendence e a forma de apuração de Saldo através do Ledgers por Student**

**Se acharem conveniente, poderemos discutir esses tópicos na próxima reunião semanal, pois a NÃO definição deste principios a priori, acarretará custos desnecessários de desenvolvimento.**

**Aquisitionns**

**Combos**

**Options**

**Options**

**Packages**

**Classes**

**Students**

**Packages**

**Classes**

**Students**

**Payments**

**Occorences**

**Attendence**

**Payments**

**Ledgers  
By  
Student**

**Students**

**Funcionalidades e Formas de Processamento**

**Funcionalidades Básicas relativas aos Dados Mestres**

* Criação e Manutenção dos **Dados Mestres dos Students**;
* Criação e Manutenção dos **Dados Mestres dos Packages** e, opcionalmente, suas respectivas **Options** de Contratação;
* Criação e Manutenção dos **Dados Mestres dos Classes**;
* Definição dos **Combos:** Compreende a associação dos **Packages** com as **Classes** como forma de definir as Classes elegiveis para os Packages;

**Funcionalidades Básicas relativas às Transações**

* **Aquisição/Contratação**: Compreende a associação dos **Students** com os **Packages** como forma de definir, por **Student**, os **Packages** contratados/adquiridos e as condições (inclusive preço) desta contratação/aquisição. À esta função, pode estar associada o registro automático do pagamento correspondente ao **Package**-**Option** selecionado;
* **Attendences**: Compreende o registro de participação de um **Student** em uma determinada ocorrencia de **Class**;
* **Payments**: Compreende o registro de cada pagamento feito por **Student** relacionado a um determinado **Package-Option;**
* **Student Ledgers**: Compreende o registro “contabil” de cada **Payment** e/ou **Attendence**. Todos os lalncamentos deverão trazer a identificação de **Period** contabil (ano-mês) a que se refere;

**Exemplos Práticos das Funcionalidades**

**Um empreendedor, ministrado de sessoes de Zumba, adquire o sistema para controlar suas atividades.**

**Passo 01 – Instalação do App Jumba-Z e a Criação automática do Package “ Default”, P00:**

**P00 - O Package, P00, é criado automaticamente durante o processo de instalação e tem uma Descrição “Default” e nenhuma informação de Preço criado na PACKAGES 🡸 Concluí como desnecessário**

**Passo 02 – Ele, de acordo com sua disponibilidade de Tempo e Local, cadastras suas caracteristicas de suas Classes na CLASSES:**

**C02 – Classe de Zumba Regular ás Segundas-Feiras, as 10:00, com duração de 1 Hora, no Salão da Igreja, cobrando R$15,00 por Participação;**

**C03 - Classe de Zumba Regular ás Terças-Feiras, as 10:00, com duração de 1 Hora, no Salão da Igreja, cobrando R$15,00 por Participação;**

**C04 - Classe de Zumba Regular ás Quartas-Feiras, as 10:00, com duração de 1 Hora, no Salão da Igreja, cobrando R$15,00 por Participação;**

**C05 - Classe de Zumba Regular ás Quartas-Feiras, as 10:00, com duração de 1 Hora, no Salão da Igreja, cobrando R$17,00 por Participação;**

**C06 - Classe de Zumba Regular ás Quartas-Feiras, as 10:00, com duração de 1 Hora, no Salão da Igreja, cobrando R$18,00 por Participação;**

**Passo 03 – O emprrendedor, passa a divulgar seu produto, Package-Classes, e conquista a atenção de interessados e os vai cadastrando no App como STUDENTS:**

**S01 - Student 01, opta por adquirir um certo número de Classes (sem ainda definir em que dias irá participar, é paga R$150,00;**

**S03 – Student 03, opta por experimentar algumas Classes (não sabe quais ou quando) e não adquire nenhum crédito antecipadamente;**

**S05 – Student 05, diz que vai às Classes de Sexta-Feira e adquire R$170.00 antecipados;**

**S07 – Student 07, pretende ir às Classes de Segunda, Quarta e Sexta, mas só adquire um crédito de R$100,00**

**S09 – Student 09, pretende ir nas Classes de Terças e Quintas, mas não adquire nenhum crédito antecipado.**

**Passo 04 – Em seguida, efetiva as vendas realizadas registrando as transações na AQUISTIONS:**

**PMT01 - Student S01, Payment R$150,00 - Registra o Payment de R$150,00 na chave STD=S01, PCKG=””, OPT=”” CRD $150,00**

**PMT02 - Student S05, Payment R$170.00 – Registra o Payment de R$170,00 na chave STD=S05, PCKG=””, OPT=”” CRD $170,00**

**PMT03 - Student S07, Payment R$100.00 – Registra o Payment de R$100,00 na chave STD=S07, PCKG=””, OPT=”” CRD $100,00**

**Passo 05 – Ministra as Classes:**

**No dia 05/Out, Segunda-Feira, às 10:00 Hrs, no Salão da Igreja, registra a presença dos Students na ATTENDENCE by OCCURENCE:**

**S01 e o App processa a Attendence lancando a mesma na chave 20201005-10:00-Prs-C02-STD=S01-PCK=””-OPT=””-DBT$15,00**

**S03 e o App processa a Attendence lancando a mesma na chave 20201005-10:00-Prs-C02-STD=S03-PCK=””-OPT=””-DBT$15,00**

**S07 e o App processa a Attendence lancando a mesma na chave 20201005-10:00-Prs-C02-STD=S07-PCK=””-OPT=””-DBT$15,00**

**No dia 06/Out, Terça-Feira, às 10:00 Hrs, no Salão da Igreja, registra a presença dos Students na ATTENDENCE by OCCURENCE:**

**S01 e o App processa a Attendence lancando a mesma na chave 20201006-10:00-Prs-C03-STD=S01-PCK=””-OPT=””-DBT$15,00**

**S09 e o App processa a Attendence lancando a mesma na chave 20201006-10:00-Prs-C03-STD=S09-PCK=””-OPT=””-DBT$15,00**

**No dia 07/Out, Quarta-Feira, às 10:00 Hrs, no Salão da Igreja, registra a presença dos Students na ATTENDENCE by OCCURENCE:**

**S01 e o App processa a Attendence lancando a mesma na chave 20201007-10:00-Prs-C04-STD=S01-PCK=””-OPT=””-DBT$15,00**

**S07 e o App processa a Attendence lancando a mesma na chave 20201007-10:00-Prs-C04-STD=S07-PCK=””-OPT=””-DBT$15,00**

**No dia 08/Out, Quinta-Feira, às 10:00 Hrs, no Salão da Igreja, registra a presença dos Students na ATTENDENCE by OCCURENCE:**

**S01 e o App processa a Attendence lancando a mesma na chave 20201009-10:00-Prs-C01-STD=S05-PCK=””-OPT=””-DBT$17,00**

**S03 e o App processa a Attendence lancando a mesma na chave 20201008-10:00-Prs-C05-STD=S03-PCK=””-OPT=””-DBT$17,00**

**S09 e o App processa a Attendence lancando a mesma na chave 20201008-10:00-Prs-C05-STD=S09-PCK=””-OPT=””-DBT$17,00**

**No dia 09/Out, Sexta-Feira, às 10:00 Hrs, no Salão da Igreja, registra a presença dos Students na ATTENDENCE by OCCURENCE:**

**S01 e o App processa a Attendence lancando a mesma na chave 20201009-10:00-Prs-C01-STD=S05-PCK=””-OPT=””-DBT$18,00**

**S05 e o App processa a Attendence lancando a mesma na chave 20201009-10:00-Prs-C05-STD=S05-PCK=””-OPT=””-DBT$18,00**

**S07 e o App processa a Attendence lancando a mesma na chave 20201009-10:00-Prs-C05-STD=S07-PCK=””-OPT=””-DBT$18,00**

**Um novo participante aparece e participa da Class. Ele é cadastrado pelo instrutor a partir da própria Attendence List e recebe código S11 durante o registro na propria Attence List como cortesia (Csy)**

**S11 e o App processa a ATTENDENCE by OCCURENCE lancando a mesma na chave 20201009-10:00-Csy-C05-STD=S11-PCK=””-OPT=””-DBT$00,00**

**Passo 06 – Apuração da Contabilização da Semana (LEDGERS by Student)**

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**Passo 07 – Transações durante o final de semana (com respectivas Atualizações do LEDGERS by Student)**

**Aquisitions**

**PMT04 - Student S03, Payment R$150,00 - Registra o Payment de R$150,00 na chave STD=S03, PCKG=””, OPT=”” CRD $150,00**

**PMT05 - Student S09, Payment R$90.00 – Registra o Payment de R$90,00 na chave STD=S05, PCKG=””, OPT=”” CRD $90,00**

**PMT06 – Student S11, Payment R$100.00 – Registra o Payment de R$100,00 na chave STD=S11, PCKG=””, OPT=”” CRD $100,00**

**PMT07 – Student S01, Payment R10,00 – Registra o Payment de R$10,00 na chave STD=S01, PCKG=””, OPT=”” CRD $10,00**

**Ledgers by Student (Updated by the above Transactions)**

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|  | **Data** | **Student** | **Pckg** | **Opt** | **Op** | **$** | **Balance** |  | **Data** | **Student** | **Pckg** | **Opt** | **Op** | **$** | **Balance** |  | **Data** | **Student** | **Pckg** | **Opt** | **Op** | **$** | **Balance** |  |
|  | 02/10/2020 | S01 |  |  | CR | 150,00 | 150,00 |  | 05/10/2020 | S03 |  |  | DB | - 15,00 | - 15,00 |  | 02/10/2020 | S05 |  |  | CR | 170,00 | 170,00 |  |
|  | 05/10/2020 | S01 |  |  | DB | - 15,00 | 135,00 |  | 08/10/2020 | S03 |  |  | DB | - 15,00 | - 30,00 |  | 09/10/2020 | S05 |  |  | DB | - 15,00 | 155,00 |  |
|  | 06/10/2020 | S01 |  |  | DB | - 15,00 | 120,00 |  | 10/10/2020 | S03 |  |  | Cr | 150,00 | 150,00 |  |  |  |  |  |  |  | - |  |
|  | 07/10/2020 | S01 |  |  | DB | - 15,00 | 105,00 |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  | - |  |
|  | 08/10/2020 | S01 |  |  | DB | - 17,00 | 88,00 |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  | - |  |
|  | 08/10/2020 | S01 |  |  | DB | - 18,00 | 70,00 |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  | - |  |
|  | 10/10/2020 | S01 |  |  | CR | 10,00 | 80,00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | **Data** | **Student** | **Pckg** | **Opt** | **Op** | **$** | **Balance** |  | **Data** | **Student** | **Pckg** | **Opt** | **Op** | **$** | **Balance** |  | **Data** | **Student** | **Pckg** | **Opt** | **Op** | **$** | **Balance** |  |
|  | 02/10/2020 | S07 |  |  | CR | 100,00 | 100,00 |  | 08/10/2020 | S09 |  |  | DB | - 18,00 | - 18,00 |  | 08/10/2020 | S11 |  |  | DB | - | - |  |
|  | 05/10/2020 | S07 |  |  | DB | - 15,00 | 85,00 |  | 10/10/2020 | S09 |  |  | CR | 90,00 | 72,00 |  | 10/10/2020 | S11 |  |  | CR | 100,00 | 100,00 |  |
|  | 07/10/2020 | S07 |  |  | DB | - 15,00 | 70,00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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