



PROJECT PLAN

CHICOWEB

DEVELOPMENT OF A WEB SYSTEM FOR ONLINE ORDERING AT TIO CHICO'S PIZZERIA

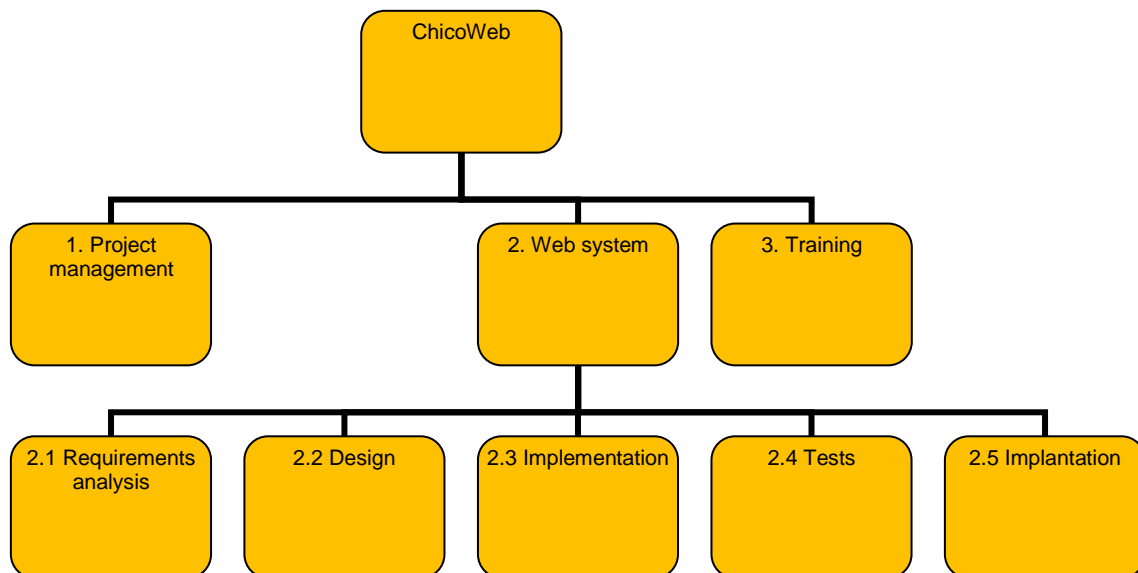
1. Scope

The web system for Tio Chico's pizzeria will allow to order pizzas via Internet. This system should enable the customers to register on the system (name, last name, address, phone, email, landmark). These information will be stored in a secure database on the server of the pizzeria.

Another module will be implemented allowing the customers to order pizzas online by browsing through the pizzeria's menu. The customer may choose the number of pizzas, flavors, additional items, payment method and whether the delivery address is the same as the user's registration address. Payment of the orders may be made by credit card or in cash.

An administration module will enable the viewing of sales data (such as best-selling pizzas, etc.).

| ID | Acceptance criteria | Evaluation method | Degree of importance |
|----|--|---|----------------------|
| 01 | Web system with visualization of pizzeria's menu | Approval of the system, through acceptance testing. | Essential |
| 02 | Registration of customers | Approval of the system, through acceptance testing. | Essential |
| 03 | Registration of orders | Approval of the system, through acceptance testing. | Essential |
| 04 | Sales administration | Approval of the system, through acceptance testing. | Essential |
| 05 | 2 employees trained | Approval of the system, through acceptance testing. | Essential |



| ID | WBS element | Description |
|-----|-----------------------|--|
| 1. | PROJECT MANAGEMENT | Project monitoring & control. |
| 2. | WEB SYSTEM | Complete ordering web system. |
| 2.1 | Requirements analysis | Functional and non-functional requirements of the system. |
| 2.2 | Design | Design of the system. |
| 2.3 | Implementation | Code and executable. |
| 2.4 | Tests | System test plans and reports. |
| 2.5 | Implantation | System installed on the client's server and project delivery accepted. |
| 3. | TRAINING | Training material prepared and 2 employees trained. |

2. Time

2.1 Definition and sequencing of activities

| ID | Activity | Predecessor |
|-------|---------------------------------|----------------------------|
| 1 | Project management | |
| 1.1 | Monitor & control week 1 | -- |
| 1.2 | Monitor & control week 2 | 1.1 |
| 1.3 | Monitor & control week 3 | 1.2 |
| 1.4 | Monitor & control week 4 | 1.3 |
| 2 | Web system | |
| 2.1 | Requirements analysis | |
| 2.1.1 | Elicit requirements | |
| 2.1.2 | Analyze requirements | 2.1.1 |
| 2.1.3 | Review requirements | 2.1.2 |
| 2.2 | Design | |
| 2.2.1 | Design system architecture | 2.1.2 |
| 2.2.2 | Design database | 2.1.2 |
| 2.2.3 | Design interface | 2.1.2 |
| 2.3 | Implementation | |
| 2.3.1 | Implement menu module | 2.2.1, 2.2.2, 2.2.3 |
| 2.3.2 | Implement order module | 2.2.1, 2.2.2, 2.2.3 |
| 2.3.3 | Implement administrative module | 2.2.1, 2.2.2, 2.2.3 |
| 2.4 | Tests | |
| 2.4.1 | Plan system tests | 2.1.3 |
| 2.4.2 | Execute system tests | 2.3.1, 2.3.2, 2.3.3, 2.4.1 |
| 2.5 | Implantation | |
| 2.5.1 | Install system | 2.4.2 |
| 2.5.2 | Verify and accept project | 2.5.1 |
| 3 | Training | |
| 3.1 | Prepare training material | 2.3.1, 2.3.2, 2.3.3 |
| 3.2 | Realize training | 3.1 |

2.2 Effort estimates and resource allocation

| ID | Activity | Responsible | Estimated effort (Person-Hours) |
|------------|---------------------------------|-------------|---------------------------------|
| 1 | Project management | | |
| 1.1 | Monitor & control week 1 | Leonardo | 40 |
| 1.2 | Monitor & control week 2 | Leonardo | 40 |
| 1.3 | Monitor & control week 3 | Leonardo | 40 |
| 1.4 | Monitor & control week 4 | Leonardo | 40 |
| 2 | Web system | | |
| 2.1 | Requirements analysis | | |
| 2.1.1 | Elicit requirements | João | 8 |
| 2.1.2 | Analyze requirements | João | 8 |
| 2.1.3 | Review requirements | João | 8 |
| 2.2 | Design | | |
| 2.2.1 | Design system architecture | Mauricio | 8 |
| 2.2.2 | Design database | Vitor | 16 |
| 2.2.3 | Design interface | Mauricio | 8 |
| 2.3 | Implementation | | |
| 2.3.1 | Implement menu module | Lucas | 40 |
| 2.3.2 | Implement order module | Alberto | 40 |
| 2.3.3 | Implement administrative module | Paulo | 24 |
| 2.4 | Tests | | |
| 2.4.1 | Plan system tests | Karen | 8 |
| 2.4.2 | Execute system tests | Karen | 8 |
| 2.5 | Implantation | | |
| 2.5.1 | Install system | Karen | 8 |
| 2.5.2 | Verify and accept project | Karen | 8 |
| 3. | Training | | |
| 3.1 | Prepare training material | João | 8 |
| 3.2 | Realize training | João | 8 |

SCHEDULE

| ACTIVITIES/MILESTONES | | DECEMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------------------|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| | | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| 1. | Project management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | Monitor & control week 1 | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | Monitor & control week 2 | | | | | | | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | |
| 1.3 | Monitor & control week 3 | | | | | | | | | | | | | | | X | X | X | X | X | | | | | | | | | | | | | |
| 1.4 | Monitor & control week 4 | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | | | | | | |
| 2 | Web system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Requirements analysis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1.1 | Elicit requirements | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1.2 | Analyze requirements | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1.3 | Review requirements | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2.1 | Design system architecture | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2.2 | Design database | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2.3 | Design interface | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.3 | Implementation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.3.1 | Implement menu module | | | | | | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| 2.3.2 | Implement order module | | | | | | | | | | | | | | X | X | X | X | X | | | | | | | | | | | | | | |
| 2.3.3 | Implement admin. module | | | | | | | | | | | | | | X | X | X | | | | | | | | | | | | | | | | |
| 2.4 | Tests | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4.1 | Plan system tests | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 2.4.2 | Execute system tests | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| 2.5 | Implantation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5.1 | Install system | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| 2.5.2 | Verify and accept project | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| 3 | Training | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 | Prepare training material | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| 3.2 | Realize training | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |

3. Cost

3.1 Cost Estimates

| Item | Quantity (person-hours) | Unit cost | Total cost |
|----------------------|-------------------------|-----------|--------------|
| Project manager | 160 | \$ 50,00 | \$ 8.000,00 |
| Requirements analyst | 40 | \$ 30,00 | \$ 1.200,00 |
| System analyst | 16 | \$ 30,00 | \$ 480,00 |
| Programmers | 104 | \$ 25,00 | \$ 2.600,00 |
| DBA/Designer | 16 | \$ 25,00 | \$ 400,00 |
| Tester/Installer | 32 | \$ 20,00 | \$ 640,00 |
| Total | | | \$ 13.320,00 |

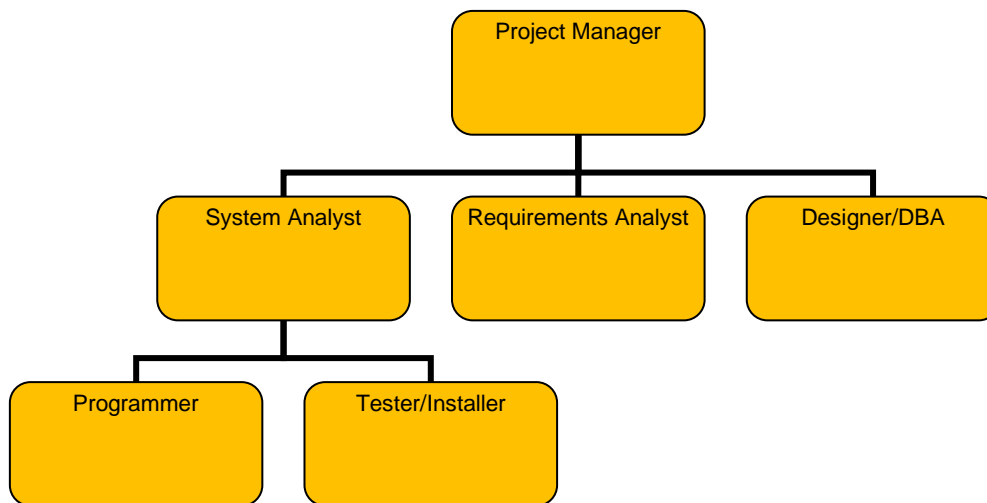
3.2 Cost Baseline

| Item | Week 1 | Week 2 | Week 3 | Week 4 |
|----------------------|-------------|-------------|-------------|-------------|
| Project manager | \$ 2.000,00 | \$ 2.000,00 | \$ 2.000,00 | \$ 2.000,00 |
| DBA | \$ 400,00 | ----- | ----- | ----- |
| Requirements analyst | \$ 720,00 | ----- | ----- | \$ 480,00 |
| System analyst | \$ 480,00 | ----- | ----- | ----- |
| Programmers | ----- | \$ 1.000,00 | \$ 1.600,00 | ----- |
| Tester/Installer | ----- | ----- | ----- | \$ 640,00 |
| Total | \$ 3.600,00 | \$ 3.000,00 | \$ 3.600,00 | \$ 3.120,00 |

3.3 Project Budget

The total cost estimated is \$ 13.320,00.

4. Human Resources



5. Communication

| Information to be communicated | Receiver | Form | Responsibility | Frequency |
|--------------------------------|-----------------|------------------------------|----------------|-----------|
| Project status | Project manager | Status report/ dotProject | Analysts | Weekly |
| Development status | Programmers | Meeting | System Analyst | Weekly |
| Project documentation | Project team | Project server | Analysts | Daily |

6. Risks

Classification scale from 1 – very low to 5 – very high.

| Risk | Prob. | Impact | Priority | Prevention | Contingency |
|---|-------|--------|----------|--|-----------------------------|
| Requirement changes | 3 | 4 | 4 | Formal process for change control. | -- |
| DB problems | 2 | 5 | 5 | Realize daily backups. | Re-establish backup/rework. |
| Infra-structure at client not available | 2 | 5 | 4 | Define infra-structure requirements clearly. | Re-plan installation. |