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Case Study—Sun Fook Kong

Background

The Sun Fook Kong Group, formerly known as Sung Foo Kee, has occupied an exceptional position in Hong Kong's construction community since 1948. The company is an approved contractor of the Housing Authority for the carrying out of building works, maintenance and decoration works. It is also an approved contractor for public works under the category of Building Groups C and a registered contractor under the Builders' Lifts and Tower Working Platforms. With a wide spectrum of engagement in the construction fields, Sun Fook Kong has different construction sites located in Hong Kong territories, currently including Mongkok, Sheung Shui, Kwu Tung, Lantau Island, Yuen Long, Tin Shui Wai, Tseung Kwan O, Sha Tin, Siu Sai Wan, etc.

User Requirements

1. To carry out different construction projects, Sun Fook Kong has employed more than 2000 highly mobilized workers. A reliable staff management system is demanded.
2. It takes time and huge human effort to collect and consolidate all attendance data from different site locations for payroll calculations. Electronic attendance data is the only choice to solve this problem.
3. Under government regulations, people without working premise, Green Card, like illegal workers or public are not allowed to enter the construction sites. Therefore, an access control system is required to identify legitimate staff for every different construction site.
4. Workers are highly mobilized and may shift from one work type to another very frequently, which requires a flexible system to reflect changes instantly.
5. Owing to physical constraints in construction sites, the system must utilize the very limited available communication channels between site guard station where the user punch cards, site office where the project manager controls staff management and the head office where centralized data is maintained for data exchange.
6. Decentralized staff management to each project manager for different construction sites is required, but data from every site has to be centralized in head office for payroll calculations.



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Project Descriptions

1. Several sets of Time Guard readers are installed in each construction site, within the site guard station. Actual number of readers depends on individual project manager's need.
2. Turnstiles are installed to achieve strict access control if requested by the project manager of the construction project.
3. Data receiving software module, called Split Window, is setup in the site guard station to retrieve transaction from readers and at the same time display photo and relevant staff information to the security guards for verification.
4. Data exchange between site guard station and site office is achieved using USB (Universal Serial Bus) hard disks.
5. Data exchange between site office and head office is carried out via modem over PSTN (Public Switched Telephone Network)
6. Data synchronization software written by Integrated is setup at all locations to take care of the data exchange process.
7. All data transferred to head office is exported to computerized HR management system for automatic payroll calculations.
8. As there are more than 4000 transactions per day the database expands very quickly and a database maintenance utility written by Integrated provides easy data management tools to users.